

Form Approved
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OF CASE OF SERVICES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt:

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Control Number:

Docket Number:

| PART | A (| GENERAL REPORTING INFORMATION |
|------------|------|--|
| 1.01 | Thi | is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been |
| CBI | | npleted in response to the <u>Federal Register</u> Notice of [7]8 [2]8 mo. day year |
| [_] | a. | If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal |
| | | Register, list the CAS No |
| | b. | If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> . |
| | | (i) Chemical name as listed in the rule |
| | | (ii) Name of mixture as listed in the rule |
| | | (iii) Trade name as listed in the rule |
| | c. | If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category. |
| | | Name of category as listed in the rule |
| | | CAS No. of chemical substance |
| | | Name of chemical substance |
| 1.02 | Ide | entify your reporting status under CAIR by circling the appropriate response(s). |
| <u>CBI</u> | Man | ufacturer 1 |
| [_] | Imp | orter 2 |
| | Pro | ocessor |
| | | manufacturer reporting for customer who is a processor4 |
| | X/P | processor reporting for customer who is a processor |
| | | |
| | | |
| | | |
| | | |
| [_] | Mark | (X) this box if you attach a continuation sheet. |

| 1.03 | Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice? | | | | | | |
|--------------------------|---|--|--|--|--|--|--|
| <u>CBI</u> | Yes | | | | | | |
| 1.04 <u>CBI</u> | a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response. Yes | | | | | | |
| * | b. Check the appropriate box below: | | | | | | |
| | [_] You have chosen to notify your customers of their reporting obligations Provide the trade name(s) | | | | | | |
| | [_] You have chosen to report for your customers [_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting. | | | | | | |
| 1.05 <u>CBI</u> [] | If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name. Trade name | | | | | | |
| 1.06 <u>CBI</u> | Certification — The person who is responsible for the completion of this form must sign the certification statement below: "I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate." RAYMOND L DSBORNE NAME CORPORATE ENUIRONMENTAL (404) 349 — 70000 THE EDUONE NO. | | | | | | |
| [_] | SPECIALIST Mark (X) this box if you attach a continuation sheet. | | | | | | |

| 1.07 <u>CBI</u> [] | Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission. | | | | | | |
|--------------------------|--|--|--|---|--|--|--|
| | "I hereby certify that, to the information which I have not in to EPA within the past 3 years period specified in the rule." | cluded in | this CAIR Reporting Fo | orm has been submitted | | | |
| | NA | | | | | | |
| | NAME | | SIGNATURE | DATE SIGNED | | | |
| | TITLE | (| TELEPHONE NO. | DATE OF PREVIOUS SUBMISSION | | | |
| <u>CBI</u> | "My company has taken measures and it will continue to take the been, reasonably ascertainable using legitimate means (other tajudicial or quasi-judicial prinformation is not publicly ava would cause substantial harm to | to protec ese measu by other han disco oceeding) ilable el: | t the confidentiality of res; the information is persons (other than govery based on a showing without my company's of sewhere; and disclosure | s not, and has not vernment bodies) by g of special need in consent; the e of the information | | | |
| | NAME TITLE | (| SIGNATURE - TELEPHONE NO. | DATE SIGNED | | | |
| [] | Mark (X) this box if you attach a | | | | | | |

| PART | B CORPORATE DATA |
|------------|---|
| 1.09 | Facility Identification |
| <u>CBI</u> | Name $[D]O]O]O]G]LAS = [$] = [] = [$ |
| | [M] [] [] [A] [N] [] [] [] [] [] [] [] [] [] [] [] [] [] |
| | [<u>7]N</u>] [<u>3</u>] <u>8</u>] <u>5</u>] <u>5</u>][]]]]] State |
| | Dun & Bradstreet Number [0]6]-[8]5]2]-[7]2]0]9] EPA ID Number [0]6]6]8]5]2]7]2]0]9] Employer ID Number [M]月]0]0]0]M]V] Primary Standard Industrial Classification (SIC) Code [3]7]1/4] Other SIC Code [3]0]8]6] Other SIC Code [1]1]1] |
| 1.10 | Company Headquarters Identification |
| <u>CBI</u> | Name (D)0 0 6 4 5 - \$ - \$ - \$ 0 m A 5 0 \[D 0 0 m P A \[D V -] Address [2]4 6 0 0 - \[H A L L \[W 0 0]D - C 0 \[U R F - - - - - - - - - - - - - - - - - - |
| | [M] [4] [4] [4] [4] [4] [4] [4] [4] [5] |
| [_] | Mark (X) this box if you attach a continuation sheet. |

| 1.11 | Parent Company Identification |
|------------|--|
| <u>CBI</u> | Name [D] 0 0 0 6 1 4 5 1 4 1 1 2 0 1 m 1 A 1 5 1 0 1 N 1 1 C 1 0 1 M 1 P 1 P 1 N 1 Y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | []][][][][][][][][][][][][][][][][][][|
| | [<u>M]</u> <u>T</u>] [<u>4]</u> <u>B</u>] <u>3]</u>][<u>4]</u> 5] <u>0]</u> <u>8</u>] State |
| | Dun & Bradstreet Number |
| 1.12 | Technical Contact |
| <u>CBI</u> | Name [R]AJVIMJOJNJOJJLJJJJSJBJOJRJVJEJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJ |
| | [#]T]Z]A]N]T]A]]]]]]]]]]]]]]]]]]]]]]]]]]]] |
| | [6]A] [3]0]3]2]0][]]]]]] |
| | Telephone Number[<u>坪]</u> [<u>尹]</u>]-[<u>ヲ]</u> [<u>ヲ]</u> [<u>ヲ]</u> [<u>ヲ]</u> [<u>ヲ]</u>] |
| 1.13 | This reporting year is from |
| | |
| | |
| | |
| | |
| | |
| [_] | Mark (X) this box if you attach a continuation sheet. |

| 1.14 | Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: |
|---------------|---|
| <u>CBI</u> | Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| [_] | Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | [_]_] [_]_]_]_]_][_]]_]_]_ State |
| | Employer ID Number |
| | Date of Sale |
| | Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | Telephone Number |
| 1.15 | Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer: |
| CBI | Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| [_] | Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | [_]_] [_]_]_]_][_]_]_] State |
| | Employer ID Number |
| | Date of Purchase |
| | Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | Telephone Number |
| | |
| [<u></u>] M | Mark (X) this box if you attach a continuation sheet. |

| 1.16 | For each classification listed below, state the quantity of the listed | | | | | | |
|-----------|--|-----------------|--|--|--|--|--|
| CBI | was manufactured, imported, or processed at your facility during the reporting yea | | | | | | |
| <u></u> 1 | Classification | uantity (kg/yr) | | | | | |
| ı_, | | A./ () | | | | | |
| | Manufactured | | | | | | |
| | Imported | <i>N A</i> | | | | | |
| | Processed (include quantity repackaged) | 221 582 | | | | | |
| | Of that quantity manufactured or imported, report that quantity: | | | | | | |
| | In storage at the beginning of the reporting year | NA | | | | | |
| | For on-site use or processing | NA | | | | | |
| | For direct commercial distribution (including export) | <u>NA</u> | | | | | |
| | In storage at the end of the reporting year | NA | | | | | |
| | Of that quantity processed, report that quantity: | | | | | | |
| | In storage at the beginning of the reporting year | 55,380 | | | | | |
| | Processed as a reactant (chemical producer) | <i>NA</i> | | | | | |
| | Processed as a formulation component (mixture producer) | <i>NA</i> | | | | | |
| | Processed as an article component (article producer) | 221,582 | | | | | |
| | Repackaged (including export) | NA | | | | | |
| | In storage at the end of the reporting year | 55,380 | | | | | |
| | | , | | | | | |

| $_{\rm I}$ | Mark | (X) | this | box | if | vou | attach | а | continuation | sheet |
|------------|------|-----|------|-----|----|-----|----------|---|--------------|---------|
| · • | | (/ | | ~ ~ | | , | a c ca c | • | Concinaction | Direct. |

| 1.17 <u>CBI</u> | Mixture If the listed substar or a component of a mixture, pro chemical. (If the mixture compo- each component chemical for all | ovide the following info osition is variable, rep | ormation for each | n component |
|--------------------|--|--|----------------------|--|
| [_] | Component Name | Supplier Name | Composition (specify | rage % on by Weight precision, 45% ± 0.5%) |
| | TDI (SUBSTANCE) | BASF | 8 | 5 % ± UNI |
| | MDI - (96/8-87-9) | BASF | | 0% ± UNK |
| | | | | |
| | | | Total | 100% |
| | | | | |

| 2.04 | State the quantity of the listed substance that your facility manufactured, imported, or processed during the 3 corporate fiscal years preceding the reporting year in descending order. |
|-------------|--|
| <u>CBI</u> | |
| [_] | Year ending |
| | Quantity manufactured kg |
| | Quantity imported |
| | Quantity processed |
| | Year ending |
| | Quantity manufactured |
| | Quantity imported |
| | Quantity processed |
| | Year ending |
| | Quantity manufactured |
| | Quantity imported |
| | Quantity processed |
| 2.05 CBI | Specify the manner in which you <u>manufactured</u> the listed substance. Circle all appropriate process types. WA |
| [_] | Continuous process 1 |
| | Semicontinuous process |
| | Batch process 3 |
| | |
| [_] | Mark (X) this box if you attach a continuation sheet. |

| 2.06 CBI | Specify the manner in appropriate process t | which you processed types. | he listed substance. | Circle all |
|--------------------|---|--|----------------------------|-----------------------------|
| [_] | Continuous sussess | | | |
| | • | • | | _ |
| | | s | | |
| | Batch process | • | ••••• | |
| 2.07 <u>CBI</u> | | name-plate capacity free a batch manufacture | | |
| [_] | W 6 | | | N/D |
| | | у | | |
| | Processing capacity | | \$ | 5 <i>45,000</i> kg/yr |
| 2.08 <u>CBI</u> | manufactured, importe | ease or decrease the o d, or processed at any crease or decrease bas | time after your curr | ent corporate fiscal |
| [_] | | Manufacturing Quantity (kg) | Importing Quantity (kg) | Processing Quantity (kg) |
| | Amount of increase | NA | NA | NA |
| | Amount of decrease | NA | NA | NA |
| | | | | |
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| [_] | Mark (X) this box if y | ou attach a continuat | ion sheet. | |

| 2.09 | Por the three largest volume manufacturing or processing process types involving listed substance, specify the number of days you manufactured or processed the li substance during the reporting year. Also specify the average number of hours peday each process type was operated. (If only one or two operations are involved, list those.) | | | | |
|--------------------------|--|---|-------------|----------------------|--|
| <u>CBI</u> | | | | Average Hours/Day | |
| | Process Type #1 | (The process type involving the largest quantity of the listed substance.) Manufactured | | | |
| | Process Type #2 | (The process type involving the 2nd largest quantity of the listed substance.) Manufactured | NA NA | | |
| | Process Type #3 | (The process type involving the 3rd largest quantity of the listed substance.) Manufactured | | NA NA | |
| 2.10 <u>CBI</u> [] | substance that chemical. | um daily inventory and average monthly inventory was stored on-site during the reporting year in PSPONSE NOT REQUIRED FOR TOIL Inventory inventory | the form of | | |
| | Mark (X) this be | ox if you attach a continuation sheet. | | | |

| _] | etc.). | | | | Source of By- |
|----|---------|---------------|---|--|--|
| | CAS No. | Chemical Name | Byproduct, Coproduct or Impurity ¹ | Concentration (%) (specify ±% precision) | products, Co- products, or _Impurities |
| | NONE | LISTED | | | |
| | | | | | |
| | | | | | *************************************** |
| | | | | | |
| | | | | | |
| | | | | | |

| 2.12 <u>CBI</u> [] | Existing Product Types List all eximported, or processed using the list the quantity of listed substance you total volume of listed substance used quantity of listed substance used caplisted under column b., and the types the instructions for further explanate | ed substance during the use for each product type during the reporting yestively on-site as a perces of end-users for each p | reporting year. List e as a percentage of the ar. Also list the entage of the value |
|--------------------------|--|--|--|
| | a. b. % of Quant Manufactur Imported, Product Types ¹ Processe | red, % of Quantity or Used Captively | d. Type of End-Users ² |
| | B | % 100 % | |
| | ¹ Use the following codes to designate | product types: | |
| | <pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/</pre> | <pre>M = Plasticizer N = Dye/Pigment/Co O = Photographic/R</pre> | icals and additives or chemicals rol chemicals ids and additives d additives difier |
| | | the type of end-users: Consumer Other (specify) | |
| [_] | Mark (X) this box if you attach a con | tinuation sheet. | |

| <u>I</u> | Expected Product Types import, or process usi corporate fiscal year. import, or process for substance used during used captively on-site types of end-users for explanation and an example of the explanation and example of the example | ng the listed substance For each use as a percentage of each product type. | ance at cify the entage of Also l | any time after e quantity you of the total vo list the quanti lue listed unde | your current expect to manufacture olume of listed ity of listed substancer column b., and the |
|----------|--|--|---|---|---|
| | a. | b. | | c. | d. |
| | Product Types ¹ | % of Quantity Manufactured, Imported, or Processed | | of Quantity sed Captively On-Site | Type of End-Users |
| | \mathcal{B} | 100 % | | 100 % | \mathcal{I} |
| | | | | | |
| | ¹ Use the following code | es to designate proc | luct typ | | |
| | A = Solvent B = Synthetic reactant C = Catalyst/Initiator | t | L = Mo M = Pl | ldable/Castabl asticizer | e/Rubber and additive |
| | Sensitizer D = Inhibitor/Stabilizer/Scavenger/ Antioxidant | | | Photographic/Reprographic chemical and additivesElectrodeposition/Plating chemicals | |
| | D = Inhibitor/Stabiliz Antioxidant | _ | an- | d additives | |
| | <pre>D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction</pre> | : :/Sequestrant :/Degreaser | an P = El Q = Fu R = Ex S = Fr T = Po | d additives ectrodeposition el and fuel add plosive chemica agrance/Flavor llution contro | n/Plating chemicals ditives als and additives chemicals l chemicals |
| | <pre>D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent</pre> | : :/Sequestrant :/Degreaser n modifier/Antiwear | and P = E1 Q = Fu R = Ext S = Fro U = Fu V = Me V = Rhe | d additives ectrodeposition el and fuel add plosive chemica agrance/Flavor llution control nctional fluids tal alloy and a eological modi | n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives |
| | <pre>D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant</pre> | : :/Sequestrant :/Degreaser n modifier/Antiwear :ier | and P = E1 | d additives ectrodeposition el and fuel add plosive chemica agrance/Flavor llution control nctional fluids tal alloy and a eological modifi her (specify) | n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives |
| | <pre>D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh</pre> | : :/Sequestrant :/Degreaser n modifier/Antiwear :ier nesive and additives es to designate the CS = Cons | and P = El Q = Function R = Exting S = From Points T = Points V = Me W = Rhe X = Other type of umer | d additives ectrodeposition el and fuel add plosive chemica agrance/Flavor llution control nctional fluids tal alloy and a eological modifi her (specify) | n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier |

| a. | b. | c. Average % | d. | | | |
|--|--|--|---|--|--|--|
| Product Type ¹ | Final Product's Physical Form ² | Composition of Listed Substance in Final Product | Type of End-Users ³ | | | |
| NA | NA | NA | NA | | | |
| | | | | | | |
| | | | | | | |
| ¹ Use the following codes to designate product types: | | | | | | |
| <pre>agent I = Surfactant/Emuls J = Flame retardant K = Coating/Binder/A</pre> | tor/Accelerator/ lizer/Scavenger/ ent ent/Sequestrant ent/Degreaser ion modifier/Antiwear sifier adhesive and additive des to designate the F2 = Cry F3 = Grai F4 = Othe G = Gel | <pre>U = Functional fluids V = Metal alloy and a W = Rheological modif s X = Other (specify) final product's physical stalline solid nules</pre> | ant/Ink and addit ographic chemical /Plating chemical itives ls and additives chemicals chemicals and additives dditives dditives | | | |
| ³ Use the following codes to designate the type of end-users: I = Industrial | | | | | | |
| CM = Commercial | ** ***** | er (specify) | | | | |

| 2.15 CBI | | le all applicable modes of transportation used to deliver bulk shipments of ed substance to off-site customers. | the | | | | | |
|--------------------|-------|---|-------------|--|--|--|--|--|
| [_] | Truc | k | . 1 | | | | | |
| | Rail | Railcar | | | | | | |
| | Barge | | | | | | | |
| | Pipe: | line | . 4 | | | | | |
| | Plane | e | . : | | | | | |
| | 0thei | r (specify) | . 6 | | | | | |
| 2.16 <u>CBI</u> | or pr | omer Use Estimate the quantity of the listed substance used by your custo repared by your customers during the reporting year for use under each categ and use listed (i-iv). | mers ory | | | | | |
| `' | Cate | gory of End Use | | | | | | |
| | i. | Industrial Products | | | | | | |
| | | Chemical or mixture | kg/yr | | | | | |
| | | Article | kg/yr | | | | | |
| | ii. | Commercial Products | | | | | | |
| | | Chemical or mixture | kg/yr | | | | | |
| | | Article | kg/yr | | | | | |
| | iii. | Consumer Products | | | | | | |
| | | Chemical or mixture | kg/yr | | | | | |
| | | Article | kg/yr | | | | | |
| | iv. | <u>Other</u> | | | | | | |
| | | Distribution (excluding export) | kg/yr | | | | | |
| | | Export | | | | | | |
| | | Quantity of substance consumed as reactant | | | | | | |
| | | Unknown customer uses | | | | | | |
| | | | | | | | | |
| [_] | Mark | (X) this box if you attach a continuation sheet. | | | | | | |

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

| PART | A GENERAL DATA | | |
|---------------------------|--|-------------------|--------------------------|
| 3.01 <u>CBI</u> [_] | Specify the quantity purchased and the average price for each major source of supply listed. Product trade The average price is the market value of the product substance. | es are treated as | purchases. |
| tJ | Source of Supply | Quantity (kg) | Average Price (\$/kg) |
| | The listed substance was manufactured on-site. | NA | NA |
| | The listed substance was transferred from a different company site. | NA | NA |
| | The listed substance was purchased directly from a manufacturer or importer. | 221582 | 2.30 |
| | The listed substance was purchased from a distributor or repackager. | NA | NA |
| | The listed substance was purchased from a mixture producer. | NA | NA |
| 3.02 CBI | Circle all applicable modes of transportation used to your facility. Truck | | |
| 1 | Mark (X) this box if you attach a continuation sheet. | | |
| | | | |

| 3.03 CBI | a. | Circle all applicable containers used to transport the listed substance to your facility. |
|-------------|-----|--|
| [_] | | Bags 1 |
| | | |
| | | Boxes 2 |
| | | Free standing tank cylinders 3 |
| | | Tank rail cars 4 |
| | | Hopper cars 5 |
| | | Tank trucks6 |
| | | Hopper trucks 7 |
| | | Drums |
| | | Pipeline 9 |
| | | Other (specify)10 |
| | b. | If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks. |
| | | Tank cylinders mmHg |
| | | Tank rail cars mmHg |
| | | Tank trucks mmHg |
| | | |
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| [_] | Mar | k (X) this box if you attach a continuation sheet. |

| o BI a | of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of th average percent composition by weight of the listed substance in the mixture, and amount of mixture processed during the reporting year. | | | | | |
|-----------|--|--------------|--------------------------|---|----------------------------------|--|
| | Trade Name Lupranate | <i>752</i> 5 | Supplier or Manufacturer | Average % Composition by Weight (specify ± % precision) | Amount Processed (kg/yr) 276,978 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

| 3.05 CBI | State the quantity of the li reporting year in the form of the percent composition, by | of a class I chemical, clas | ss II chemical, or polymer, and |
|-------------|--|-------------------------------|--|
| | Class I chemical | Quantity Used (kg/yr) 221,582 | % Composition by Weight of Listed Substance in Raw Material (specify ± % precision |
| | Class II chemical | NA | NA |
| | Polymer | NA | NA |
| | | | |
| | | | |
| | | | |
| | | | |

| | SEC | CTION 4 PHYSICAL/C | HEMICAL PROPERTIES | |
|-----------------|---|--|--|---------------------------------------|
| Gene | ral Instructions: | | | |
| If you | ou are reporting on a mix at are inappropriate to m | xture as defined in mixtures by stating | the glossary, reply to "NA mixture." | questions in Section |
| noti | questions 4.06-4.15, if yoe that addresses the intimited in lieu of answering | formation requested | ard warning statement, land, you may submit a copy which it addresses. | abel, MSDS, or other or reasonable |
| PART | A PHYSICAL/CHEMICAL DAT | TA SUMMARY | | |
| 4.01 <u>CBI</u> | substance as it is manu substance in the final | ufactured, imported product form for more at the point you | major ¹ technical grade(s; , or processed. Measure anufacturing activities, begin to process the sul | the purity of the at the time you |
| | | Manufacture | Import | Process |
| | Technical grade #1 | NA% purity | % purity | |
| | Technical grade #2 | | WA % purity | |
| | Technical grade #3 | NA % purity | NA % purity | NA % purity |
| | ¹ Major = Greatest quant | tity of listed subs | tance manufactured, impor | ted or processed. |
| 4.02 | substance, and for ever an MSDS that you develo | ry formulation conta oped and an MSDS de | l Safety Data Sheet (MSDS aining the listed substan veloped by a different so SDS has been submitted by | ice. If you possess |
| | Yes | ••••• | • | |
| | No | ••••• | | 2 |
| | Indicate whether the MS | SDS was developed by | y your company or by a di | fferent source. |
| | Your company | ••••• | | |
| | | | • | |
| | | | | |

[X] Mark (X) this box if you attach a continuation sheet. MSDS SHEET

MATERIAL SAFETY

BASE Corporation Chemicals Division
100 Cherry Hill Road, Paralppany, New Jersey 07064, (201) 916-3000



DATA SHEET

HMIS: H4 F1 R1

PRODUCT NUMBER: 883721

LUPRANATE* 7525

| TRADE NAME: LUPRANATE* 7625 | | | |
|---------------------------------------|---------------|-----------|------------------|
| CHEMICAL NAME: Toluene Diisooyanat | e/Polymethyle | ne Polyph | menyl (socyanate |
| SYNONYMS: TDI/MDI Bland | FORM | /IULA: N | lixture |
| CHEMICAL FAMILY: Aromatic Isocyanates | | | MOL. WGT.: N/A |
| SECTION | II - ING | REDIEN | TS |
| COMPONENT | ÇAS NO. | % | PEL/TLV - SOURCE |
| | | 1 | |

| All components are in TSUA inventory. | | | |
|---|-----------|-----|---|
| Contains: | | | |
| 2,4 Toluene Diisocyanate | 584-84-\$ | >50 | 0.005 ppm -TWA, .02 ppm- STEL,ACGIH,1987;.02 ppm- ceiling, 1987 |
| 2,8 Toluene Diisooyanate | 91-08-7 | >10 | Not established |
| Diphenylmethane Diisocyanate | 101-68-8 | <20 | O.O2 ppm cmiling for MDI OSHA, ACGIH, 1987 |
| Polymethylens Polyphanylens Polyisocyanate SARA Title TIT Section 312. Listed | 9018-87-9 | <20 | Not established |

| SECTION III - PHY | SICAL DATA |
|---|-----------------------------|
| BOILING/MELTING POINT 4760 mm Hg: >400°F/ N/A | pH: N/A |
| VAPOR PRESSURE mm Hg @20 C: 0.01 | Vapor Density (Air=1): 6.0 |
| SPECIFIC GRAVITY OR BULK DENSITY: 1.22 | Freezing Point: 51.8-53.5°F |
| 'SOLUBILITY IN WATER: Water Reacts | : |

APPEARANCE: Dark Liquid ODOR: Pungent INTENSITY: Strong

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD): 270°F TAG Open Cup (TDI) AUTOIGNITION TEMP: N/A

FLAMMABILITY LIMITS IN AIR (% BY VOL) LOWER: 0.8% UPPER: 9.5%

EXTINGUISHING Use water fog, foam or CO2 extinguishing media.
MEDIUM

SPECIAL
FIREFIGHTING
FIREFIGHTING
PROCEDURES

UMUSUAL FIRE
AND EXPLOSION

HAZARDS

Personnel engaged in fighting isocyanate fires must be protected against nitrogen dioxide fumes as well as isocyanate vapors. Firefighters must wear self-contained breathing apparatus and turnout gear.

Avoid water contamination in closed containers or confined areas; carbon dioxide gas is generated.

EMERGENCY TELEPHONE NUMBER

CHEMTREC 800-424-9300

201-316-3000

THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS

DP102 12/87

25A

PAGE 1 OF 4

PRODUCT NUMBER: 583721

LUPRANATE * 7828

SECTION V - HEALTH DATA

TOXICOLOGICAL TEST DATA:

LUPRANATE* 7525 Toluene Diisocyanate--TDI

> Rat, Dral LD50 Mouse, Inhalation LC50

Diphenylmethane Diisocyanate

RESULT:

Severe eye and skin irritant, sensitizer.

5.8 g/kg,
10 ppm/4H

Respiratory sensitization possible

EFFECTS OF OVEREXPOSURE:

Inhalation of the vapors causes severe irritation to lungs, and pulmonary edema can occur after a serious vapor exposure. Liquid contact causes serious skin and eye burns. Pulmonary sensitization can occur in some individuals leading to asthma-type spasms of the bronchial tubes and difficulty in breathing. Preclude from exposure those individuals having a history of respiratory illness, asthmatic conditions, eye damage or TDI sensitization. Recent studies indicate that overexposure may be associated with chronic lung impairment.

In a National Toxicology Program (NTP) study, TDI was carcinogenic when given orally to rats and mice at maximum tolerated doses. TDI was not-carcinogenic to rats in a two-year inhalation study. Based on the results of the oral study, TDI was included in the NTP Annual Report on Carcinogens.

FIRST AID PROCEDURES:

Eyes-Immediately wash eyes with running water for 15 minutes. Get immediate medical attention.

Skin-Wash affected areas with water while removing contaminated clothing. Get immediate medical attention. Launder contaminated clothing before reuse.

Ingestion-If swallowed, DO NOT INDUCE VOMITING. Dilute with water or milk and get immediate medical attention. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Inhalation-Move to fresh air. Aid in breathing, if necessary, and get

SECTION VILLERACTIVITY DATA

STABILITY:

Stable.

immediate medical attention.

CONDITIONS TO AVOID:

Avoid temperatures >40°C for extended periods of time.

CHEMICAL INCOMPATIBILITY:

Basic compounds, caustic soda, tertiaryamines, water

HAZARDOUS DECOMPOSITION PRODUCTS: TDI Vapors, NOX, CO and HCN.

HAZARDOUS POLYMERIZATION:

May occur. Avoid contamination with moisture

CONDITIONS TO AVOID:

and other products that react with isocyanates.

CORROSIVE TO METAL:

No

OXIDIZER: N

SECTION VII - SPECIAL PROTECTION

RESPIRATORY PROTECTION:

Approved respirator for transferring operations or escape. Self-contained breathing apparatus if the P.E.L. is exceeded, or in confined areas or if a leak occurs.

EYE PROTECTION:

Wear fitted goggles or face shield and safety glasses.

PROTECTIVE CLOTHING: Rubber gloves, coveralls, boots, and rubber apron which gust be cleaned after each use.

VENTILATION:

Use local exhaust wherever vapors are generated.

OTHER:

Maintain work area below P.E.L.

250

| · | |
|--|---|
| PRODUCT NUMBER: 683721 LUPRANATE* 7626 | |
| SECTION VIII - ENVIR | ONMENTAL DATA |
| ENVIRONMENTAL TOXICITY DATA: | |
| Aquatic toxicity rating: TLm 88: 10 | ppm - 1 ppm |
| SPILL AND LEAK PROCEDURES: | |
| LUPRANATE* 7525 is a RCRA-regulated pr Evacuate all personnel not involved in with absorbent and containerize into o and spill area with a mixture of 90% w HAZARDOUS SUBSTANCE SUPERFUND: Yes | the cleanup. For minor spills, absorb |
| WASTE DISPOSAL METHOD: | |
| 2% detergent. Dispose of solidified w Incinerate or bury as a solid after ab licensed facility. Do not discharge i | sorption or cementation in a |
| HAZARDOUS WASTE 40CFR261: Yes | HAZARDOUS WASTE NUMBER: U 223 |
| CONTAINER DISPOSAL: | -, - |
| containing less than i' of residue, ma | liquid decontaminant. Empty containers, y be landfilled. If containers are not rdous waste in a RCRA-licensed facility. |
| SECTION IX - SHIP | |
| D.O.T. PROPER SHIPPING NAME (49CFR172.101-1 | 02) HAZARDOUS SUBSTANCE (49CFR CERCLA LIST) |
| Potaon B Enquird, NOS | YesTDI |
| | REPORTABLE QUANTITY (RQ) 100 15 |
| D.O.T. HAZARD CLASSIFICATION (CFR 172. 101-102 PRIMARY Polson B | |
| _ | |
| D.O.T. LABELS REQUIRED (49CFR172.101-102) | D.O.T. PLACARDS REQUIRED (CFR172.504) (49CFR172.203(K)) |
| | |
| BILL OF LADING DESCRIPTION Poison B Liquid, NOS (Contains Toluene *** PLACARDED: POISON *** (PLASTICS, SYNTHETIC, LIQUID, NOIBN) | Diisocyanate)UN 2810 RQ 100 LBS. |

WHILE BASE CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS OF THE DATE HEREOF, BASE CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION. AND VERIFICATION.

UN/NA CODE2810

4 / 11 / 88

UPDATED:

QP104 9/87 2

4 / 21 / 88

CC NO.

DATE PREPARED:

25C

SECTION X - PRODUCT LABEL

LUPRANATE* 7525

DANGER: POISON, HARMFUL IF INHALED. CONTAINS TOLUENE DIISOCYANATE (CAS Nos.: 584-84-8; 81-08-7); DIPHENYLMETHANE DIISOCYANATE (CAS Nos.: 101-88-8; 9018-87-9). CONTACT WITH EYES AND SKIN RESULTS IN SERIOUS BURNS, INHALATION OF VAPORS CAUSES SEVERE IRRITATION TO LUNGS, PULMONARY EDEMA MAY OCCUR, PULMONARY SENSI-TIZATION CAN OCCUR IN SOME INDIVIDUALS, LEADING TO ASTHMA-TYPE SPASMS OF THE BRONCHIAL TUBES AND DIFFICULTY IN BREATHING. INDIVIDUALS WITH A HISTORY OF RESPIRATORY ILLNESS, ASTHMATIC CONDITIONS, EYE DAMAGE OR TDI SENSITIZATION SHOULD NOT BE EXPOSED TO THIS PRODUCT.
IN AN NTP STUDY, TDI WAS CARCINOGENIC TO RODENTS GIVEN HIGH ORAL DOSES AND IS INCLUDED IN THE NTP ANNUAL REPORT ON CARCINOGENS. TDI WAS NOT CARCINOGENIC TO RATS IN A TWO-YEAR INHALATION STUDY.

Use with local exhaust. Wear an approved respirator or self-contained breathing apparatus, fitted goggles or face shield and safety glasses, gloves, coveralls, boots, apron and other protective clothing as necessary to prevent contact.

FIRST AID:

Eyes-Immediately wash eyes with running water for 15 minutes.

Get immediate medical attention.

Skin-Wash affected areas with water while removing contaminated clothing. Get immediate medical attention. Launder contaminated clothing before reuse.
Ingestion-If swallowed, DO NOT INDUCE VOMITING. Dilute with water

or milk and get immediate medical attention. Never give fluids or induce vemiting if the victim is unconscious or having convulsions.

Inhalation-Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

HANDLING AND STORAGE: Keep containers closed and store in a dry, wellventilated place. Outage should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture. Contamination by moisture or basic compounds can cause dangerous pressure buildup in a closed container. Store above 60 F to prevent freezing and isomer separation. Do not exceed 95 F while thawing. Mix before using.

IN CASE OF SPILLS OR LEAKS: Material is a RCRA-regulated product. . Spills should be contained, absorbed and placed in suitable containers for disposal in a RCRA-licensed facility.

IN CASE OF FIRE: Use water fog, foam or CO2 extinguishing media. Firefighters should be equipped with self-contained breathing apparatus and turnout gear for protection against TDI vapors and toxic decomposition products.

EMPTY CONTAINERS: All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and reconditioned.

DISPOSAL: Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations. Refeto our Material Safety Data Sheet for specific disposal instructions.

IN CASE OF CHEMICAL EMERGENCY: Call CHEMTREC day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents 800-424-9300.

ATTENTION: This product is sold solely for use by industrial institutions. Refer to our Technical Bulletin and Material Safety Data Sheet regarding safety, usage, applications, hazards, procedures and disposal of this product. Consult your supervisor for additional information.

FOR INDUSTRY USE ONLY. Proper Shipping Name: Poison B, Liquid NOS - UN 2810 RQ Made in USA. Polymers. 0837

| 4.03 | Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to <u>your customers/users regarding</u> the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response. Yes |
|---------------|---|
| | No 2 |
| 4.04 CBI [_] | For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product. |
| | Physical State |

| | Physical State | | | | |
|-------------|----------------|--------|----------|------------------|-----|
| Activity | Solid | Slurry | Liquid | Liquified Gas | Gas |
| Manufacture | 1 | 2 | 3 | 4 | 5 |
| Import | 1 | 2 | 3 | 4 | 5 |
| Process | 1 | 2 | 3 | 4 | 5 |
| Store | 1 | 2 | 3 | 4 | 5 |
| Dispose | 1 | 2 | 3 | 4 | 5 |
| Transport | 1 | 2 | 3 | 4 | 5 |

[_] Mark (X) this box if you attach a continuation sheet.

| [_] | Dhoodaal | 1 | <u> </u> | _ | | | of the pro | |
|-----|-------------------|------------------|-------------|--------|---------|-------|------------|-----------|
| | Physical State | | Manufacture | Import | Process | Store | Dispose | Transport |
| | Dust | <1 micron | | | | | | |
| | | 1 to <5 microns | | | | | | |
| | | 5 to <10 microns | | | | | | |
| | Powder | <1 micron | | | | | - | |
| | | 1 to <5 microns | | | | | | |
| | | 5 to <10 microns | | | | | | - |
| | Fiber | <1 micron | | | | | | |
| | | 1 to <5 microns | | | | | | |
| | | 5 to <10 microns | | | | | | |
| | Aerosol | <1 micron | | | | | | |
| | | 1 to <5 microns | | | | | | |
| | | 5 to <10 microns | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Ind | dicate the rate constants for the following transf | ormation processes. | |
|-----|---|---------------------|-------|
| a. | Photolysis: UNKNOWN | | |
| | Absorption spectrum coefficient (peak) | (1/M cm) at | n |
| | Reaction quantum yield, 6 | at | nn |
| | Direct photolysis rate constant, k _p , at | 1/hr | latit |
| b. | Oxidation constants at 25°C: UNKNOWN | | |
| | For 10_2 (singlet oxygen), k_{ox} | | 1/ |
| | For RO ₂ (peroxy radical), k _{ox} | | 1/ |
| c. | Five-day biochemical oxygen demand, BOD ₅ | | mg |
| d. | Biotransformation rate constant: UNKNOW | IN | |
| | For bacterial transformation in water, k _b | | 1/ |
| | Specify culture | | |
| e. | Hydrolysis rate constants: ONKNOWN | | |
| | For base-promoted process, k _B | | 1/ |
| | For acid-promoted process, k _A | - | 1/ |
| | For neutral process, k _N | | 1/ |
| f. | Chemical reduction rate (specify conditions) | INKNOWN | |

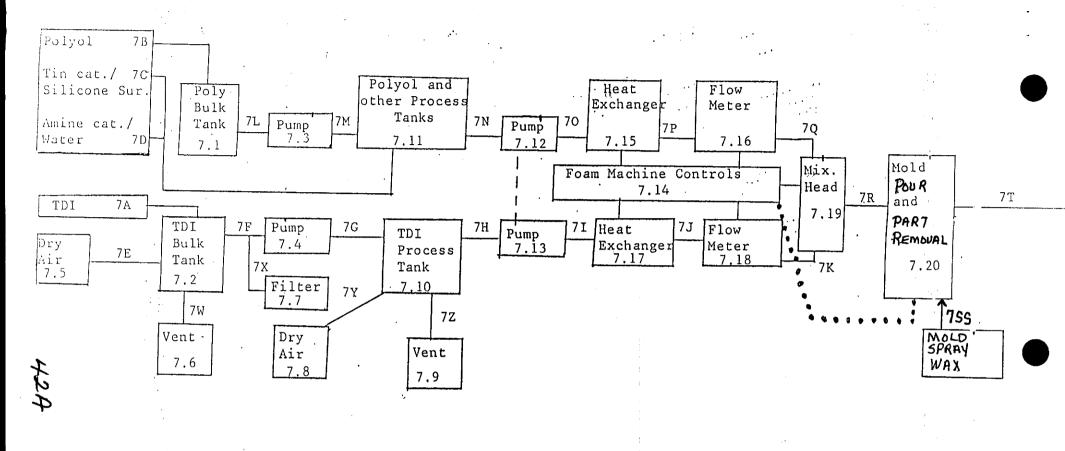
|--|--|

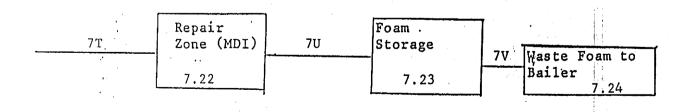
| PART | В | PARTITION COE | FFICIENTS | | | | |
|------|------|--|----------------------------------|----------------|----------------------------|-------------|-------------|
| 5.02 | a. | Specify the | half-life of | the listed sub | stance in the foll | owing media | • |
| | | <u>Media</u> | UNKNOW | บ _ท | Half-life (sp | ecify units |) |
| | | Groundwater | | | | | |
| | | Atmosphere | | | | | |
| | | Surface wat | er | | | | |
| | | Soil | | | | | |
| | b. | | e listed subst r than 24 hour | | ransformation prod | ucts that h | ave a half- |
| | | CAS | No. | <u>Name</u> | Half-life (specify unit | <u>s)</u> | Media |
| | | 11.11. | | | | in | |
| | | UNKNI | <u>owv</u> | | | in | |
| | | | | | | in | |
| | | | | | | in | |
| 5.03 | Met | hod of calcu | lation or dete | rmination | ient, K _{ow} | | |
| | | | | | ····· <u> </u> | | |
| 5.05 | Spe | cify the organisms of the cify | anic carbon-wat | ter partition | ····· <i>UI</i> | UKNOWN | at 25°0 |
| 5.06 | Spe | cify the Henr | ry's Law Consta | ant, H | | KNOWN | atm-m³/mole |
| [_] | Marl | (X) this bo | ox if you attac | h a continuati | on sheet. | | |

| DNKNOWN | <u>Species</u> | Test ¹ |
|---|-----------------------------|-------------------|
| ¹ Use the following codes to | designate the type of test: | |
| F = Flowthrough S = Static | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| 6.04 CBI | For each market listed below, state the the listed substance sold or transferred | | |
|-----------------|---|---|---|
| [_] | Response NOT Requ | Quantity Sold or | Total Sales |
| | Market | Transferred (kg/yr) | Value (\$/yr) |
| | Retail sales | | |
| | Distribution Wholesalers | | |
| | Distribution Retailers | | |
| | Intra-company transfer | | |
| | Repackagers | | |
| | Mixture producers | | |
| | Article producers | | |
| | Other chemical manufacturers or processors | | |
| | Exporters | | |
| | Other (specify) | | |
| | · | | |
| 6.05 <u>CBI</u> | Substitutes — List all known commercial for the listed substance and state the feasible substitute is one which is economic in your current operation, and which reperformance in its end uses. | cost of each substitue onomically and technologically and technologically are considered to the control of the | te. A commercially ogically feasible to use |
| [_] | Substitute | | Cost (\$/kg) |
| | UNKNOWN | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| [_] | Mark (X) this box if you attach a conti | nuation sheet. | |

| SECTION 7 MANUFACTURING AND PROCESSING INFORMATION |
|---|
| General Instructions: |
| For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted. |
| PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION |
| 7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance. CBI |
| Process type FLEXIBLE SEATING POLYURETHANE FOAM WANDEACTURING PROCESS |

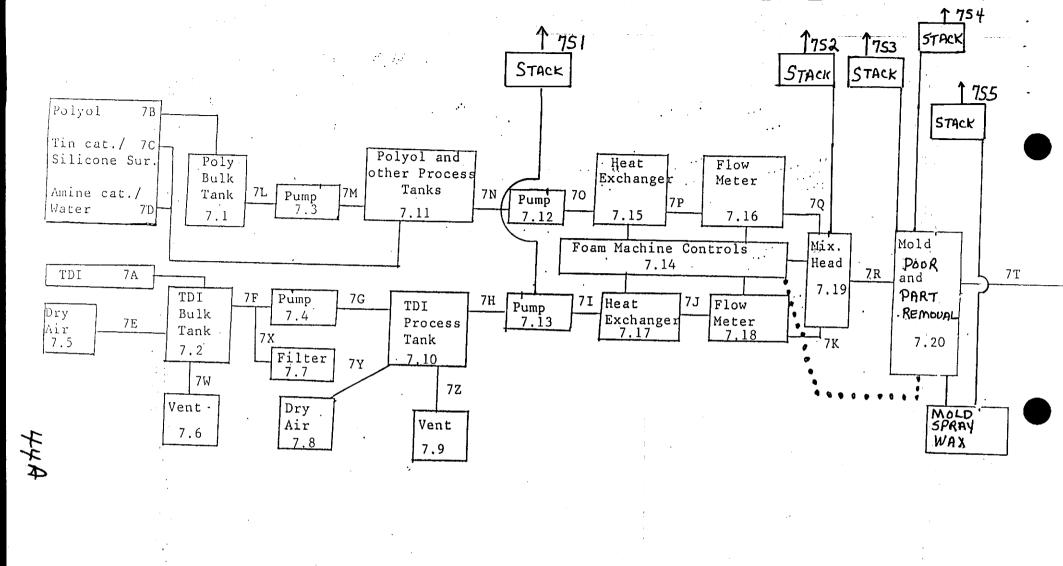


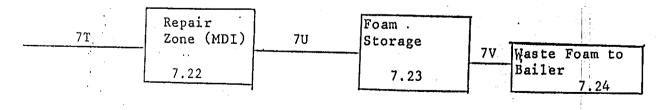


7.01

PROCESS FLOW DIAGRAM
FLEXIBLE SEATING POLYURETHANE
FOAM MANUFACTURING PROCESS

| 7.03 | In accordance with the | | | | |
|------|---|-----------------|---------------|-----------------------|------------|
| | process emission strea which, if combined, wo | | | | |
| | treated before emissio | n into the envi | ronment. If | all such emissions ar | e released |
| | from one process type, | | | | |
| | for question 7.01. If type, provide a proces | | | | |
| | block. | S DIOCK LIOW GI | agram Showing | each process type as | a separate |
| CBI | | | | | |
| [_] | Process type | FLEXIBLE | SEATING | POLYURETHANE | FOAM |
| | | MANUFACT | TURING P | ROCESS. | |





7.03
EMISSION POINTS
PAGE 44
FLEXIBLE SEATING
POLYURETHANE FOAM
MANUFACTURING PROCESS

Describe the typical equipment types for each unit operation identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. CBI Process type FLEXIBLE SEATING YOLVURETHANE FOAM MANUFACTURING Unit Operating Operation Typical Operating Pressure ID Equipment Temperature Range Vessel Number Type Range (°C) (mm Hg) Composition STORAGE TANK AMBIENT AT MOSPHERIC STEEL PUMP 0-7750 STEEL PROCESS TANKS 0-4400 STEEL 500 STORAGE TANK STEEL PROCESS PUMP STEEL HEAT EXCHANGER FLOW METER STEEL 0-155,000 MIX HEAD

3100-5170

MOLD

^[] Mark (X) this box if you attach a continuation sheet.

| CBI | | FLEXIBLE SEATING | POLYURETHANE | FOAM |
|-------------|--------------------------------|--|-----------------------------|------------------------|
| [_] P | rocess type | MANUFACTURING | PROCES S | |
| | Process Stream | | | |
| | ID Code | Process Stream Description | Physical State ¹ | Stream Flow (kg/yr) |
| 7 F, 7G, 1 | 7H, TI, TJ, 1K | TDI | <u> </u> | 221582 |
| 72, 7M, 7 | N, 70, 7P, 79 | Polyd | 0L | 411702 |
| 7N, 70 | 79, 79 | TIN CATALYST / SILICONE SUR | FACTANT OL | 6205 |
| 7N, 70, | 7P, 79 | Amine CATALYST /WATER | OL/AL | 25258 |
| | <u> 7R</u> | TDI , POLYOL, AMINE CAT/L | <u>04</u> | 664747 |
| 7T, 74 | 1,7V | POLYURETHANE FOAM | SD | 664747 |
| 7 | <i>155</i> | MOLD Release WAX | <u> </u> | 18370 |
| | | | | |
| | | | | |
| ¹ t | Jse the followin | ng codes to designate the physic | cal state for each pr | ocess stream: |
| G | GU = Gas (uncond | isible at ambient temperature a Hensible at ambient temperature | | |
| | SO = Solid SY = Sludge or s | slurry | | |
| Δ | AL = Aqueous lic | uid uid | | |

 $^[\ \]$ Mark (X) this box if you attach a continuation sheet.

| [_] | Process typ | e <u>FLEXIBLG</u> b. MANU FI | SEATING ACTURING F | POLYURETHA. | NE FOAM |
|------|------------------------------|---------------------------------|--|--------------------------------|---|
| | a. | b. ""," | c. | d. | е. |
| | Process Stream ID Code | Known Compounds ¹ | Concen- trations ^{2,3} (% or ppm) | Other Expected Compounds | Estimated Concentrations (% or ppm) |
| | _7F_ | TOI | 80% | NA | NA |
| | | M D I | 20% | NA | NA |
| | _7_ | POLYOL | 100%(E)(W) | ACTYLONITRILE STYTENE | 25 PPM <60 PPM |
| | | | | | |
| | _7R_ | TDİ | 33.3%(E)(W) | NA | NA |
| | | POLYOL | 61.9%(EXW) | ACRYLONITRILE STYPENC | 225 PPM 260 PPM |
| | | TIW SILICONE | .9% (EXW) | NA | NA |
| | | AMINE WATER | 3.8%(EXW) | NA | NA |
| 7.06 | continued be | | | | 1/A |
| | 77 | POLYURETHANE FLAM | 100%(E) | W) NA | <i>port</i> |
| | | | | | |
| | | | | | |
| | | | | | |

7.06 (continued)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

| Additive ackage Number | Components of Additive Package | Concentrations (% or ppm) |
|---|---|---------------------------|
| 1 | <i>N</i> A | NA |
| 2 | NA | NA |
| 3 | NA | NA |
| 4 | WA- | NA |
| 5 | NA | NA |
| Analytical resultEngineering judgement | to designate how the concentratent/calculation to designate how the concentrate | |

[] Mark (X) this box if you attach a continuation sheet.

PART A RESIDUAL TREATMENT PROCESS DESCRIPTION 8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01. CBI Process type FLEXIBLE SEATING POLYURETHANE FORM MANUFACTURING PROCESS

Flexible Seating Polyurethane
Foam Manufacturing Process

8.1

7W
7Z

Tank Vents
to
Atmosphere

[_] Mark (X) this box if you attach a continuation sheet.

| 8.05 CBI | diagram process | (s). If a r type, photo | esidual trea copy this qu | am identified in atment block fluestion and components of the comp | ow diagram is plete it sepa | provided for rately for ea | more than on ch process |
|-----------------|------------------------|-------------------------------|--|---|---|--------------------------------|---------------------------------------|
| _[—] | Process | type | FLE. | XIBLE SEAT | TING POLY | DRETHANE | FOAM |
| | a. | b. | c. MA | XIBLE SEAT UUFACTURIN d. | G PROCES | f. | g. |
| | Stream ID Code | Type of Hazardous Waste | Physical State of Residual ² | Known Compounds ³ | Concentra- tions (% or ppm) ⁴ ,5,6 | Other Expected Compounds | Estimated Concen- trations (% or ppm) |
| | 1-752,75 5 4 | 3 NA | <u>Gu</u> | TDI | UNK | NA | <u>M</u> |
| | <u> 7s 5</u> | NA | Gu | NAPTH A | UNK | NA | NA |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| .05 | continue | ed below | | | | | |

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = ReactiveE = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) S0 = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) 8.05 continued below

[] Mark (X) this box if you attach a continuation sheet.

8.05 (continued)

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

| Additive Package Number | Components of Additive Package | Concentrations (% or ppm) |
|---|------------------------------------|---------------------------|
| 1 | NA | NA |
| 2 | NA | <i>NA</i> |
| 3 | NA | NA |
| 4 | NA | NA |
| 5 | NA | NA |
| ⁴ Use the following codes A = Analytical result E = Engineering judgemen | to designate how the concentration | on was determined: |
| 8.05 continued below | * | |
| [_] Mark (X) this box if you | attach a continuation sheet. | |

| 5 | | |
|------------------------------------|--|------------------------------------|
| °Use the fo | ollowing codes to designate how the concentration was me | asured: |
| V = Volume W = Weight | | |
| ⁶ Specify the below. As | he analytical test methods used and their detection limi ssign a code to each test method used and list those cod | ts in the table es in column e. |
| Code | Method | Detection I |
| | ESTIMATE | |
| | | |
| _3 | | |
| | | |
| _5 | | |
| _6 | | |
| | | |
| | | |
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| 8.06 | diagram process | erize each p (s). If a re type, photo (Refer to the | esidual trea copy this qu | itment block estion and c | flow diag omplete i | ram is pro t separate | vided for moly ly for each | re than one process |
|------|------------------------|--|-------------------------------------|-----------------------------------|------------------------|--------------------------|--|-------------------------------------|
| CBI | | | FLEX | 1BLE 56 | FATING | POLYL | RETHANE | FOAM |
| [_] | Process | type | MANA | PACTURIA | 16 PRO | CESS | | |
| | a. | b. | c. | d. | e | • | f. | g. |
| 791, | Stream ID Code 752,753 | Waste Description Code ¹ | Management Method Code ² | Residual Quantities (kg/yr) | of Resi | gement dual (%) Off-Site | Costs for Off-Site Management (per kg) | Changes in Management Methods |
| 2 | 755 | <u>NA</u> | WA | IVA | NA | | NA | NA |
| 3 | | | | | | | | |
| | | | | | | | | |
| | | codes provi | | | | | | |
| [_] | Mark (X) | this box if | you attach | a continuat | ion sheet. | • | | |

| [_] | M | Ch | oustion amber uture (°C) | Temp | tion of erature nitor | In Cor | ence Time mbustion (seconds) |
|-------------|---|---|--|----------------------------|---|--|---|
| | Incinerator | Primary | Secondary | Primary | Secondary | Primary | Secondary |
| | 1 | | | | | | |
| | 2 | | | | | | |
| | 3 | | | | | | |
| | | | of Solid Wast ropriate resp | | s been submit | ted in lieu | of response |
| | Yes | | • | • • • • • • • • • • • • | • • • • • • • • • • • • | • • • • • • • • • • | |
| | No | • | • • • • • • • • • • • • • | | • | • | 2 |
| 3.23 CBI | Complete the sare used on-sitreatment block | ite to burn | the residuals | | | | |
| | are used on-s: | ite to burn | the residuals ram(s). Air Po | | | | residual s of ns Data |
| CBI | Incinerator | ite to burn | the residuals ram(s). Air Po | identified | | ess block or Types Emission | residual s of ns Data |
| CBI | Incinerator 1 2 3 Indicate | ite to burn ck flow diag | the residuals ram(s). Air Po Control | llution Device e survey ha | | ess block or Types Emissior Avail | residual s of ns Data lable |
| CBI | Incinerator 1 2 Indicate by circle | te to burn ck flow diag | the residuals ram(s). Air Po Control of Solid Wast ropriate resp | llution Device e survey ha | in your proc | ess block or Types Emission Avail | residual s of ns Data lable of response |
| CBI | Incinerator 1 2 3 Indicate by circly Yes | e if Office | Air Po Control of Solid Wast ropriate resp | e survey ha | in your proc | Types Emission Avail | of response |
| CBI | Incinerator 1 2 3 Indicate by circly Yes | e if Office ing the app | Air Po Control of Solid Wast ropriate resp | e survey ha | s been submit | Types Emission Avail | of response |

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

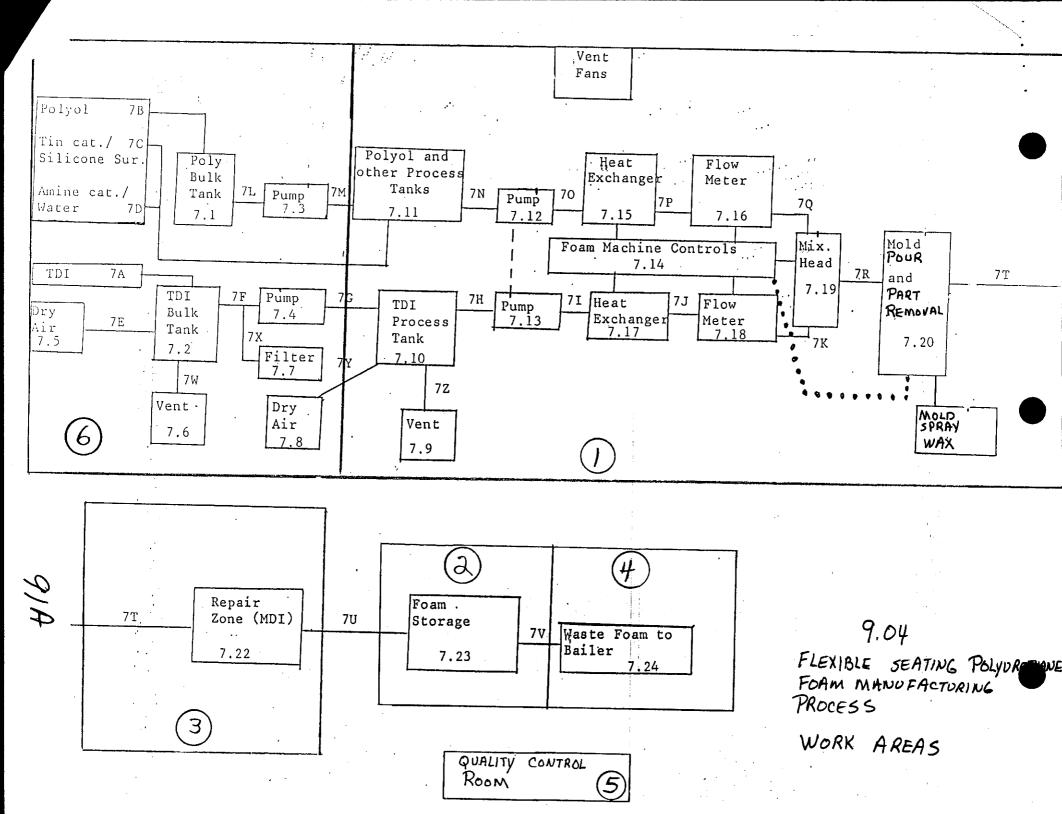
| Mark (X) the appropriate column the following data elements for element the year in which you records for that data element explanation and an example.) | or hourly a began main | and salaried ntaining rec | workers. Specify ords and the number | for each data of years the |
|--|---------------------------|------------------------------|--------------------------------------|-------------------------------|
| Da | | intained for | | Number of |
| Data Element | Hourly Workers | Salaried Workers | Data Collection Began | Years Records Are Maintained |
| Date of hire | X | | 1976 | /NOEF. |
| Age at hire | X_ | | 1976 | INDEF. |
| Work history of individual before employment at your facility | NA | NA | NA | NA |
| Sex | X | | 1976 | INDEF. |
| Race | X | _X | 1976 | INDEF. |
| Job titles | X_ | X | 1976 | NOEF. |
| Start date for each job title | X | | 1976 | INDEF. |
| End date for each job title | X_ | | 1976 | INDEF. |
| Work area industrial hygiene monitoring data | X_ | X | 1976 | INDEF. |
| Personal employee monitoring data | NA | NA | NA | NA |
| Employee medical history | <u>X</u> | | 1976 | INDEF |
| Employee smoking history | NA | NA | NA | NA |
| Accident history | X | X | 1976 | INDEF |
| Retirement date | X_ | X | 1976 | INDEF |
| Termination date | <u> </u> | X | 1976 | INDEF |
| Vital status of retirees | NA | _NA_ | NA | NA |
| Cause of death data | _NA | _NA_ | NA | NA |

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

9.02 In accordance with the instructions, complete the following table for each activity in which you engage. CBI [-] b. d. a. c. e. Yearly Total Total Activity Process Category Quantity (kg) Workers Worker-Hours NA Manufacture of the Enclosed listed substance Controlled Release 0pen NA On-site use as Enclosed reactant Controlled Release 0pen On-site use as Enclosed nonreactant Controlled Release 0pen On-site preparation Enclosed of products Controlled Release 0pen

| listed substance. | s who may potentially come in contact with or be exposed to the |
|-------------------|---|
| 1 | |
| Labor Category | Descriptive Job Title |
| A | MANAGER |
| В | Sufervisor |
| c | PRODUCTION |
| D | TRIMMERS |
| E | REPAIR PERSONS |
| F | BAILERS |
| G | |
| Н | QUALITY CONTROL MAINTENANCE |
| I | MIXER |
| J | |
| J | |
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| 9.04 | In accordance with the indicate associated we | e instructions, ork areas. | provide your | process block flow di | agram(s) and |
|------|---|-------------------------------|----------------|-----------------------|--------------|
| CBI | | | | | |
| [_] | Process type | FLEXIBLE | SCATING | POLYURETHANE | FOAM |
| | | MANUFAC | TURING T | PRUCESS | |
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| [_] | Mark (X) this box if y | ou attach a co | ntinuation she | eet. | |



| 9.05 | may potentially come additional areas not | work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type. |
|------|---|--|
| CBI | | FLEXIBLE SEATING POLYURE THANE FOAM MANUFACTURING PROCESS |
| () | Process type | FORM MANUFACTURING YRUCE 3 |
| | Work Area ID | Description of Work Areas and Worker Activities |
| | 1 | PRODUCTION |
| | 2 | TRIMMING |
| | 3 | REPAIR |
| | 4 | BAILER |
| | 5 | QUALITY CONTROL |
| | 6 | MIX ROOM |
| | 7 | |
| | 8 | |
| | 9 | |
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| [_] | Mark (X) this box if y | ou attach a continuation sheet. |

| | Process type | <u>*</u> | LEXIBLE | SEATIN | 16 POL) | URETHANE 1 | FOI |
|--|--------------------------|---------------------------------|--|---|--|--|-----------------------------------|
| | Work area | y v | IANUFAC | TURING | PROCESS | 1 | |
| | Labor Category | Number of Workers Exposed | • | oosure direct | Physical State of Listed Substance ¹ | Average Length of Exposure Per Day ² | Number Days p Year Expos |
| | $\overline{\mathcal{B}}$ | 2 | INHALA | | Gu | \overline{D} | 24 |
| | C | 18 | INHALA | TION | Gu | E | 24 |
| | $\overline{\mathcal{A}}$ | 2 | INHALA | TION | Gu | A | 24 |
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| <pre>1 Use the following codes to designate the the point of exposure: GC = Gas (condensible at ambient</pre> | | SY = AL = OL = IL = | Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha 90% water, 1 | urry nid nid .iquid nses, e.g., | stance | | |
| | A = 15 minu | | ii dedignate | | | | . + |
| | B = Greater | than 15 minu | tes, but not | e | xceeding 4 h | | |
| | | ng 1 hour | | | reater than xceeding 8 h | 4 hours, but no | ot |
| | C = Greater | than one hou | r, but not | e. | veeening o n | lours | |

| Process typ | e <u> </u> | LEXIBLE S ANUFACTUR | EATING | POL) | URETHANE | F |
|-------------------------|--|---|------------------------|--|--|---------------------------|
| Work area . | · · · · · · · · · · · · · · · · · · · | HIVOPACIO | CINB PI | | 2 | |
| Labor Category | Number of Workers Exposed | Mode of Exposu (e.g., dir skin conta | re Sta | ysical ate of isted stance ¹ | Average Length of Exposure Per Day ² | Numb Days Ye Exp |
| $_\mathcal{B}_$ | 2 | INHALAT | DN (| 3u_ | D | 2 |
| D | 12 | INHALA TI | ON C | su | E | 2 |
| C | 3 | INHALATIO | N (| 3/1 | E | ć |
| | | | | | | - |
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| <u> </u> | \$41-241-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | - | | | | - |
| | ***** | | | | | - |
| | | | | | | |
| the point | llowing codes of exposure: (condensible a | to designate th | | | | ibstanc |
| | (condensible a erature and pr | | SY = Sluc AL = Aque | | | |
| GU = Gas | (uncondensible | at ambient | OL = Orga | anic liqu | ıid | |
| | erature and pro udes fumes, va | | IL = Immi | | liquia ises, e.g., | |
| SO = Soli | | po25, 500., | | | .0% toluene) | |
| ² Use the fo | llowing codes | to designate av | erage length | of expo | sure per day: | |
| | utes or less | | | | 2 hours, but | not |
| | r than 15 minu ing 1 hour | tes, but not | | eding 4 h | ours 4 hours, but | not |
| | r than one hou: | r, but not | | eding 8 h | | 110 (|
| O = Orcacc | | | | | | |

| Process ty | /pe // M | LEXIBLE SE ANUFACTURI | NG PRI | DCESS | UKEINAME | FOA |
|---|---|--|--|---|--|-------------------------------------|
| Work area | • | • | | • | | <u> </u> |
| Labor Category | Number of Workers Exposed | Mode of Exposur (e.g., dire skin contac | e Stat ct Lis | sical te of sted tance ¹ | Average Length of Exposure Per Day ² | Number Days pe Year Expose |
| $_{\mathcal{B}}$ | 2 | INH ALATION |) [| <u>:u</u> | D | 24 |
| E | 6 | INHALATION | <u>, </u> | u | E | 24 |
| | 3 | INHALATION | <u> </u> | u | D | 24 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | - Artificial and Arti | | | |
| 0-0-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | | | | | |
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| | | /# | | | | |
| | | | | | | |
| the point GC = Gas tem GU = Gas tem inc SO = Sol Use the f A = 15 mi B = Great excee C = Great | c of exposure: c (condensible a sperature and properature and properature and problemes, valid | essure) at ambient essure; pors, etc.) to designate ave tes, but not | SY = Sludg AL = Aqueo OL = Orgar IL = Immis (spec) 90% w rage length D = Greate exceed E = Greate | ge or slubus liquinic liquinic scible licify phaswater, 10 of exposer than 2 ling 4 hour than 4 ling 8 ho | rry d d quid es, e.g., % toluene) ure per day: hours, but urs hours, but | not |

|] | Process type | F | EXIBLE S | EATIN | 6 POLY | URETHANE | FOA | |
|---|--|--|---|---------------------|--|--|-------------------------------------|--|
| | Work area | M | LEXIBLE S ANUFACTUR | RING | PROCESS | 4 | | |
| | Labor Category | Number of Workers Exposed | Mode of Exposu (e.g., dir skin conta | ect | Physical State of Listed Substance ¹ | Average Length of Exposure Per Day ² | Number Days pe Year Expose | |
| | $_\mathcal{B}_$ | 2 | /NHALATI | ON | Gu | C | 24 | |
| | F | 3 | /NHALATI | | Gu | E | 24 | |
| | | | | | | | | |
| | | | | | | rikana da | | |
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| | | | | | | | ***** | |
| | GC = Gas (tempe GU = Gas (tempe inclu | condensible at trature and presuncondensible trature and presure and presudes fumes, var | essure) at ambient essure; | SY = AL = OL = IL = | Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha | urry id id iquid ses, e.g., | estance | |
| | S0 = Solid 90% water, 10% toluene) 2 Use the following codes to designate average length of exposure per day: | | | | | | | |
| | | | o designate av | | | | | |
| | | tes or ress than 15 minut ng 1 hour | es, but not | e: | xceeding 4 h | 2 hours, but n ours 4 hours, but n | | |
| | AVCAAAI | | | L - U | reater than | T HOULS, DUC H | | |

|] | Process type | : <i>Fi</i> M | LEXIBLE | SEATING | POLY | URETHANE | FOA |
|---|--------------------------|--|---|--------------------------------|--|--|-------------------------------------|
| | Work area | γ νι | ANU FACT | URING Y | PROCESS | ξ | 5 |
| | Labor Category | Number of Workers Exposed | Mode of Expo (e.g., o skin cor | osure S lirect stact) Su | Physical State of Listed Obstance | Average Length of Exposure Per Day ² | Number Days pe Year Expose |
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| | ¹ Use the fol | lowing codes of exposure: | to designate | the physical | . state of | the listed sub | ostance a |
| | tempe GU = Gas (| condensible a erature and pre uncondensible erature and pre | essure) at ambient | $ AL = Aq \\ OL = Or $ | udge or sl ueous liqu ganic liqu miscible l | id id | |
| | | ides fumes, var | | (s | pecify pha | | |
| | ² Use the fol | lowing codes | to designate | average leng | th of expo | sure per day: | |
| | B = Greater | ites or less than 15 minut ng 1 hour | tes, but not | exc | eeding 4 h | 2 hours, but rours 4 hours, but r | |
| | C = Greater | than one hour ng 2 hours | , but not | exc | eeding 8 h | ours | .0 0 |

| <u>_</u>] | Process type | <i>_ F</i> | LEXIBLE S ANUFACTUR | EATING | POLY | URETHANE | FOAN | | |
|------------|--|--|---|---|--|--|--|--|--|
| | Work area | | ANUFACTUR | PING PA | 20c <i>ess</i> | 6 | | | |
| | Labor Category | Number of Workers Exposed | Mode of Exposu (e.g., dir skin conta | re Sta | vsical ate of isted stance ¹ | Average Length of Exposure Per Day ² | Number of Days per Year Exposed | | |
| | <u></u> | 2 | INHALATIC | <u> </u> | 3u | \mathcal{D} | 240 | | |
| | _ <u>B</u> | 2 | INHALATIO | <u>N</u> | 3u | B | 240 | | |
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| | ¹ Use the following codes to designate the physical state of the listed substance at the point of exposure: | | | | | | | | |
| | <pre>GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure; includes fumes, vapors, etc.)</pre> | | | SY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) | | | | | |
| | SO = Solid ² Use the fol | | to designate av | | • | | | | |
| | A = 15 minu B = Greater exceedi C = Greater | tes or less than 15 minu ng 1 hour than one hou ng 2 hours | tes, but not | D = Great excee E = Great | er than eding 4 herethan eding 8 h | 2 hours, but rours 4 hours, but rours | | | |

| area. | FLEXIBLE SEATING POLY | or each process type and work URETHANE FORM |
|----------------|--|--|
| Dunning turns | MANUFACTURING PROCES | |
| | | 1 |
| Work area | | |
| Labor Category | 8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify) | 15-Minute Peak Exposure Legent (ppm, mg/m³, other-specif |
| B | 0.003 PPM | 0.02 PPM |
| | 0.003 PPM | 0.02 PPM |
| <u> </u> | 0.003 PPM | 0.02 PPM |
| | 0.000 | |
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| 9.07 | Weighted Average (T Photocopy this ques | gory represented in question 9.06, WA) exposure levels and the 15-min tion and complete it separately fo | r each process type and work |
|------|--|--|---|
| CBI | area. | FLEXIBLE SEATING POLYL | |
| [_] | Process type | . MANUFACTURING PROCES | 3 |
| | Work area | | 2 |
| | Labor Category | 8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify) | 15-Minute Peak Exposure Level (ppm, mg/m³, other-specify) |
| | B | 0.601-0.002 PPM | 0.020 PPM |
| | C | 0.001 - 0.002 PPM | 0.020 PPM |
| | <u> </u> | 0.061 - 0.002 PPM | 0.020 PPM |
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| area. | FLEXIBLE SEATING POLY | URETHANE FOAM |
|----------------|--|---|
| Process type | MANUFACTURING PROCES | SS |
| Work area | | 3 |
| Labor Category | 8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify) | 15-Minute Peak Exposure Le (ppm, mg/m³, other-specif |
| B | 0.001 - 0.002 PPM | 0.020 PPM |
| E | 0.001 - 0.002 PPM | 0.020 PPM |
| C | 0.001 - 0.002 PPM | O.OZO PPM |
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| <u>area</u> . | FLEXIBLE SEATING POLYU | RETHANE FOAM |
|--------------------------|---|--|
| Process type | MANUFACTURING PROCES | |
| Work area | | 4 |
| Labor Category | 8-hour TWA Exposure Level (ppm, mg/m³, other-specify) | 15-Minute Peak Exposure Lev (ppm, mg/m³, other-specify |
| $\overline{\mathcal{B}}$ | 0.000 - 0.001 PPM | 0.020 PPM |
| F | 0.000 - 0.001 PPM | 0.020 PPM |
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| area. | FLEXIBLE SEATING POLY | |
|----------------|--|---|
| Process type | MANUFACTURING PROCE | <u> </u> |
| Work area | ····· | 5 |
| Labor Category | 8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify) | 15-Minute Peak Exposure Level (ppm, mg/m³, other-specify) |
| G | | 0.020 PPM |
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| 9.07 | Weighted Average (1 | egory represented in question 9.06, TWA) exposure levels and the 15-min stion and complete it separately fo | or each process type and work |
|------|---------------------|---|---|
| CBI | arca. | FLEXIBLE SEATING POLY | URETHANE FOAM |
| [_] | Process type | MANUFACTURING PROCES | |
| | Work area | | 6 |
| | Labor Category | 8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify) | 15-Minute Peak Exposure Level (ppm, mg/m³, other-specify) |
| | I | 0.005 PPM | 0.020 PPM |
| | B | 0.005 PPM | 0.020 PPM |
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| [_] | Mark (X) this box | if you attach a continuation sheet | • |

| 9.08 <u>CBI</u> | If you monitor worke | er exposur | e to the 11. | sted substa | псе, сощрі | ete the 10 | orrowing table. |
|--------------------|--|----------------------|------------------------------------|-------------|------------|-------------------------------|--|
| [_] | Sample/Test | Work Area ID | Testing Frequency (per year) | | Who | Analyzed In-House (Y/N) | Number of Years Records Maintained |
| | Personal breathing zone | NA < | , | | | | > NA |
| | General work area | | COWTI | W0005 | D | <u> </u> | INDEF |
| | Wipe samples | NA. | | | | | > NA |
| | Adhesive patches | NA | | | | | -> NA |
| | Blood samples | _NA_ | < | | | | -> NA |
| | Urine samples | NA | | | | | > NA |
| | Respiratory samples | _NA_ | | | | | > NA |
| | Allergy tests | NA | | | | | -> NA |
| | Other (specify) | | | | | | |
| | | NA. | | | | | > NA |
| | Other (specify) | | | | | | |
| | Other (specify) | | | | | | |
| | ¹ Use the following c A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify) | l hygieni er PLAN | st 7 | | | g samples: | |

| | Sample Type | ical Methodolo | ogy | | | | |
|----------------|---|------------------------------|--------------------|---------------|--------------|--|--|
| | GENERAL WORK AREA AIR SAMPLE PULLED THROUGH SAMPLING TUBE - | | | | | | |
| | (AIR) | | ts with lute | | | | |
| | | Gives Dieit. | VAL Read-007 | with cons | tIRVOUS GRAP | | |
| 9.10 | If you conduct persona specify the following | and/or ambient a | air monitoring for | the listed s | substance, | | |
| CBI | | | | Averaging | · | | |
| | | Detection Limit ² | Manufacturer | Time (hr) | | | |
| | E | .001 A | MDA | 8 | 7005 | | |
| N+ N> -M -W -W | | | | | | | |
| | <pre>1Use the following cod A = Passive dosimeter B = Detector tube C = Charcoal filtrati D = Other (specify)</pre> | | ersonal air monito | ring equipmer | nt types: | | |
| | Use the following codes to designate ambient air monitoring equipment types: | | | | | | |
| | <pre>E = Stationary monitors located within work area F = Stationary monitors located within facility G = Stationary monitors located at plant boundary H = Mobile monitoring equipment (specify) I = Other (specify)</pre> | | | | | | |
| | ² Use the following codes to designate detection limit units: A = ppm | | | | | | |
| | A = DDIII | | | | | | |

| CBI | NA | Frequency |
|-----|-------------------------|---------------------------------|
| [_] | <u>Test Description</u> | (weekly, monthly, yearly, etc.) |
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| 9.12 | Describe the engineering conto the listed substance. Process type and work area. | | question and comp | lete it separat | |
|--------------|--|------------------------|-------------------|-------------------|------------------|
| <u>CBI</u>] | Process type | FLEXIBLE . MANUFACT | | | FOAM |
| | Work area | | | | |
| | Engineering Controls | Used (Y/N) | Year Installed | Upgraded (Y/N) | Year Upgraded |
| | Ventilation: | | | | |
| | Local exhaust | <u> </u> | 1976 | NA | NA |
| | General dilution | <u></u> | 1976 | NA_ | <u>NA</u> |
| | Other (specify) | / | | | |
| | Vessel emission controls | | NA | NA | NA |
| | Mechanical loading or packaging equipment | у | 1976 | NA | NA |
| | Other (specify) | / | | | |

[X] Mark (X) this box if you attach a continuation sheet.

PART C ENGINEERING CONTROLS

Mechanical loading or packaging equipment

Other (specify)

| ,,12 | to the listed substance. P process type and work area. | • | | | |
|------|--|-----------------------------|-------------------|-------------------|------------------|
| CBI | | FLEXIBLE | SEATING POLY | U RETHANE | FOAM |
| [_] | Process type | | | CESS | |
| | Work area | • • • • • • • • • • • • • • | | 2 | |
| | Engineering Controls | Used (Y/N) | Year Installed | Upgraded (Y/N) | Year Upgraded |
| | Ventilation: | | | | |
| | Local exhaust | <u>y</u> | 1976 | NA | NA |
| | General dilution | | MA | WA | NA |
| | Other (specify) | | | | |
| | | NA_ | NA | NA | NA |
| | Vessel emission controls | N | NA | NA | NA |

PART C ENGINEERING CONTROLS

9.12 Describe the engineering controls that you use to reduce or eliminate worker exposure to the listed substance. Photocopy this question and complete it separately for each

| process type and work area. | FLEXIBLE | SEATING POLYU | RETHANE | FOAM |
|---|---------------|---|-------------------|-----------------|
| Process type | | | 2 <i>ESS</i> | |
| Work area | | • | 3 | |
| Engineering Controls | Used (Y/N) | Year Installed | Upgraded (Y/N) | Year Upgrade |
| Ventilation: | | | | |
| Local exhaust | <u>y</u> | 1976 | NA | NA |
| General dilution | | NA | NA | NA |
| Other (specify) | | | | |
| | \mathcal{N} | NA | NA | NA |
| Vessel emission controls | \mathcal{N} | NA | NA | NA |
| Mechanical loading or packaging equipment | N | NA_ | NA | NA |
| Other (specify) | | | | |
| | \mathcal{N} | NA | NA | NA |

| PART | C ENGINEERING CONTROLS | | | | | |
|------|--|---------------|----------------------|---------------|-------------------|------------------|
| 9.12 | Describe the engineering conto the listed substance. Plane | | | | | |
| CBI | process type and work area. | FLEXIBLE | SEATING | POLYU | RETHANE | FOAM |
| [_] | Process type | | | PROC | ?ESS | |
| | Work area | | | • • • • • • • | 4 | |
| | Engineering Controls | Used (Y/N) | Year Instal | | Upgraded (Y/N) | Year Upgraded |
| | Ventilation: | | | | | |
| | Local exhaust | <u>y</u> | 197 | 76_ | <i>N</i> | NA |
| | General dilution | ${N}$ | _N | 7 | NA | NA |
| | Other (specify) | | | | | |
| | | \mathcal{N} | Nr | 4_ | NA | NA |
| | Vessel emission controls | <i>N</i> | N | 4 | NA | NA |
| | Mechanical loading or | 4.0 | a. . A | • | M / M | |

packaging equipment

Other (specify)

| PART | C | ENGINEERING | CONTROLS |
|------|---|-------------|----------|

Other (specify)

Describe the engineering controls that you use to reduce or eliminate worker exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area. CBI POLYU RETHANE SEATING FLEXIBLE MANUFACTURING [-]PROCESS Used Year Upgraded Year Engineering Controls (Y/N)Installed (Y/N) Upgraded Ventilation: 1976 Local exhaust NA General dilution Other (specify) NA N NA N Vessel emission controls Mechanical loading or NA NA packaging equipment

[Z] Mark (X) this box if you attach a continuation sheet.

NA

NA

| 9.12 | Describe the engineering co to the listed substance. P process type and work area. | | | | |
|------|--|---------------|-------------------|-------------------|------------------|
| CBI | | FLEXIBLE | , | U RETHANE | FOAM |
| [_] | Process type | . MANUFAC | TURING PRO | CESS | |
| | Work area | | | 6_ | |
| | Engineering Controls | Used (Y/N) | Year Installed | Upgraded (Y/N) | Year Upgraded |
| | Ventilation: | | | | |
| | Local exhaust | <u>y</u> | 1976 | \mathcal{N} | NA |
| | General dilution | | 1976 | \mathcal{N} | NA |
| | Other (specify) | ı | | | |
| | H-17-20-20-20-20-20-20-20-20-20-20-20-20-20- | W | NA | NA | NA |
| | Vessel emission controls | <i>N</i> | NA | NA | NA |
| | Mechanical loading or packaging equipment | V | 1976 | N | NA |

 $^[\ \]$ Mark (X) this box if you attach a continuation sheet.

| Process type | PLEXIBLE SEATING POLY MANUFACTURING PROC | |
|--------------|---|-------------------------------------|
| Work area | or Process Modification | Reduction in Work Exposure Per Year |
| | | |
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Page 1 of 6

| | the listed substance. the percentage reduction complete it separately | or process modification year that have resulted For each equipment or p on in exposure that resu for each process type a FLEXIBLE SEATING MANUFACTURING | in a reduction rocess modified. Photo area work area Polyuke | tion of work fication desponds this constant of the constant o | cer exposure scribed, stat |
|---|---|--|--|--|-------------------------------|
| • | Work area | | | | 2 |
| | Equipment or | r Process Modification | | | on in Worker Per Year (% |
| | NA | | | | |
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| Process type | | EATING POLYUR RING PROCES | | FOAM |
|--------------|-----------------------|------------------------------|---|----------------------------|
| Equipme | nt or Process Modific | cation | | on in Worke Per Year (% |
| | | | | |
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| 9.13 | Describe all equipment or process modifications you have material prior to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modification that resulted. Photographical process is a substance of the percentage reduction in exposure that resulted. | ion of worker exposure to ication described, state copy this question and |
|------------|---|---|
| <u>CBI</u> | rocess type FLEXIBLE SEATING POLYURE Process type MANUFACTURING PROCESS | THANG FOAM |
| | Work area | 4 |
| | Equipment or Process Modification | Reduction in Worker Exposure Per Year (%) |
| | NA | |
| | | |
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| Process type | | pe and work area. | THANE | FOAM |
|---------------|----------------------------|-------------------|-------|-------------|
| Work area | | _ | | on in Worke |
| | nt or Process Modification | on | | Per Year (|
| \mathcal{N} | <i>A</i> | _ | | |
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| Process type | FLEXIBLE SEATING PRO | OLYURETHANG OCES S | FOAM |
|--------------|-------------------------|-----------------------|------------------------------------|
| Equipmen | or Process Modification | | ction in Worker ure Per Year (% |
| | | | |
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| D PERSONAL PROTECTIVE AND SAFETY EQUIPMENT | | |
|--|--|--|
| in each work area in order to reduce or elimin substance. Photocopy this question and comple | ate th <u>eir exposure to</u> | <u>the liste</u> d |
| | POLYMETHANE | FOAM |
| Process type MANDEARTO PING | PROCESS | , |
| Work area | | |
| Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify) | Wear or Use (Y/N) N Y N Y N Y Y N | |
| | in each work area in order to reduce or elimin substance. Photocopy this question and complet and work area. FLEXIBLE SEATING Process type | Describe the personal protective and safety equipment that your work in each work area in order to reduce or eliminate their exposure to substance. Photocopy this question and complete it separately for eand work area. FLEXIBLE SEATING POLYURETHANE Process type |

| PART I | D PERSONAL PROTECTIVE | AND SAFETY EQUIPMENT | | |
|--------|------------------------|---|------------------------|------------|
| 9.14 | in each work area in o | protective and safety edrader to reduce or eliming this question and comple | nate their exposure to | the listed |
| CBI | | FLEXIBLE SEATING MANUFACTURING | POLYURETHANE | FOAM |
| [_] | Process type | MANUFACTURING | PROCESS | |
| | | •••• | | 2 |

| Equipment Types | Wear or Use (Y/N) |
|---------------------------|-------------------------|
| Respirators | N |
| Safety goggles/glasses | <u>y</u> |
| Face shields | N |
| Coveralls | N |
| Bib aprons | N |
| Chemical-resistant gloves | N |
| Other (specify) | |
| | |
| | |

| PART | D PERSONAL PROTECTIVE | AND SAFETY EQUIPMENT | | |
|------------|-----------------------|---|------------------------|------------|
| 9.14 | | protective and safety e rder to reduce or elimi this question and compl | nate their exposure to | the listed |
| <u>CBI</u> | Process type | FLEXIBLE SEATING | POLYURETHANE | FOAM |
| [_] | Process type | MANUFACTURING | PROCESS | |
| | | | | 3 |

| | Wear or Use |
|---------------------------|----------------|
| Equipment Types | (Y/N) |
| Respirators | N |
| Safety goggles/glasses | <u>y</u> |
| Face shields | <u>N</u> |
| Coveralls | N |
| Bib aprons | N |
| Chemical-resistant gloves | \mathcal{N} |
| Other (specify) | |
| | |
| | |

| PART | D PERSONAL PROTECTIVE AND SAFETY EQUIPMENT | |
|------|---|-----|
| 9.14 | Describe the personal protective and safety equipment that your workers wea in each work area in order to reduce or eliminate their exposure to the lis substance. Photocopy this question and complete it separately for each pro and work area. | ted |
| CBI | FLEXIBLE SEATING POLYURETHANE FOAM Process type MANUFACTURING PROCESS | 1 |
| [_] | Process type MANUFACTURING PROCESS | * |
| | Work area 4 | |
| | | |

| Davidson A. Warner | Wear or Use |
|---------------------------|----------------|
| Equipment Types | <u>(Y/N)</u> |
| Respirators | N |
| Safety goggles/glasses | ¥ |
| Face shields | <u> </u> |
| Coveralls | <u>N</u> |
| Bib aprons | N |
| Chemical-resistant gloves | \mathcal{N} |
| Other (specify) | |
| | |
| | |

| TANI | D PERSONAL PROTECTIVE | | QUITIDIVI | | |
|------------|-----------------------|---------------|---------------|--|------------|
| 9.14 | | order to redu | ice or elimin | quipment that your work nate their exposure to ete it separately for e | the listed |
| <u>CBI</u> | und world dreat. | FLEXIBLE | SEATING | POLYURETHANE | FOAM |
| [_] | Process type | MANUFAC | TURING | PROCESS | |
| | Work area | | | | 5 |
| | | | | | |

| | Wear or Use |
|---------------------------|----------------|
| Equipment Types | (Y/N) |
| Respirators | N |
| Safety goggles/glasses | <u> </u> |
| Face shields | N |
| Coveralls | N |
| Bib aprons | <i>N</i> |
| Chemical-resistant gloves | <u> </u> |
| Other (specify) | |
| | |
| | |

| PART | D PERSONAL PROTECTIVE | AND SAFETY EQUIPMENT | | |
|------|------------------------|--|------------------------|------------|
| 9.14 | in each work area in o | protective and safety edreter to reduce or eliminates this question and comple | nate their exposure to | the listed |
| CBI | | FLEXIBLE SEATING MANUFACTURING | POLYURETHANE | FOAM |
| [_] | Process type | MANUFACTURING | PROCESS | · |
| | | | | 6 |

| Equipment Types | Wear or Use (Y/N) |
|---------------------------|-------------------------|
| Respirators | N |
| Safety goggles/glasses | <u> </u> |
| Face shields | <u>N</u> |
| Coveralls | <u> </u> |
| Bib aprons | N |
| Chemical-resistant gloves | <u>y</u> |
| Other (specify) | |
| | |
| | |

| CBI | | | FLEX IBLE | SEATIN | G POLY | URETHANE | FOAM |
|-----|-------------------------------|------------------------------------|-----------------|------------------|------------------------|------------------|---|
| [_] | Process | type | MANUFACTI | | | | |
| | Work Area | Respi Ty | rator pe | Average Usage | Fit Tested (Y/N) | Type of Fit Test | Frequency of Fit Tests (per year) |
| | A = Dail | ly | es to designate | e average u | sage: | | |
| | ² Use the QL = Qua | thly e a year er (specify) _ | es to designate | e the type o | of fit tes | t: | |
| | 7 | H | | | | | |
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| | E WORK PRACTICES | | | | |
|-------------|--|--|--|---|---|
| 9.19 CBI | eliminate worker exp authorized workers, monitoring practices | work practices and adoposure to the listed so mark areas with warnings, provide worker train te it separately for ea | ubstance (e.g. ng signs, insu ning programs, | ., restrict en ure worker de , etc.). Pho | ntrance only to tection and tocopy this |
| [_] | Process type | FLEXIBLE SEATING | 16 POLYURI PROCES | ethaus Foi S | AN . |
| | - | | | | 1 |
| | AUTOMATIC EXP PLACARDING | OSURE MONITORING | • | | |
| | LIMITED A | CCESS | - 1801 | | |
| | TRAINING PR | logra m | | | |
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| <i>,</i> | | en you perform each ho | | | |
| | | he <u>listed substance</u> . process type and work FLEXIBLE SEATING MANUFACTURING | area. | - | AM |
| 9.20 | separately for each Process type | process type and work | area. | - | - |
| ,,,, | separately for each Process type Work area | Process type and work FLEXIBLE SEATING MANUFACTURING Less Than | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |
| | Process type Work area Housekeeping Tasks | Process type and work FLEXIBLE SEATING MANUFACTURING Less Than Once Per Day | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming | PLEXIBLE SEATING MANUFACTURING Less Than Once Per Day NA NA NA | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping | PLEXIBLE SEATING MANUFACTURING Less Than Once Per Day NA NA NA | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | PLEXIBLE SEATING MANUFACTURING Less Than Once Per Day NA NA NA | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | PLEXIBLE SEATING MANUFACTURING Less Than Once Per Day NA NA NA | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | PLEXIBLE SEATING MANUFACTURING Less Than Once Per Day NA NA NA | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | PLEXIBLE SEATING MANUFACTURING Less Than Once Per Day NA NA NA | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | PLEXIBLE SEATING MANUFACTURING Less Than Once Per Day NA NA NA | POLYURE, PROCES 5 | 7HANE FO | AM More Than 4 |

| PART | E WORK PRACTICES | | | | | |
|--------------|--|-------------------------------------|--|--|--|---|
| 9.19 CBI | Describe all of the eliminate worker exp authorized workers, monitoring practices question and complet | osure to mark areas , provide | the listed su s with warnin worker train | ibstance (e.g. ng signs, inst ning programs, | ., restrict en ure worker de , etc.). Pho | ntrance only to tection and tocopy this |
| [_] | Process type | FLEXIBL | E SEATIN | 16 POLYUR | ETHALE FOI | AN |
| | Work area | | | | a | |
| | TRAINING PR | LOGRAN | 1 | | | |
| | | | | | | |
| 9.20 | Indicate (X) how often leaks or spills of the separately for each | ne <u>listed</u> | substance. | Photocopy thi | ask used to cl | lean up <u>routine</u> nd complete it |
| | Process type | FLEXIBL | E SEATING | POLYURE. | THANE FO | AM |
| | Work area | M M D F | HCTURIWG | PROCES 5 | 2 | |
| | Housekeeping Tasks | | Less Than ace Per Day | 1-2 Times Per Day | | More Than 4 Times Per Day |
| | Sweeping | NA _ | | *************************************** | | |
| | Vacuuming | NA_ | | | Control of the Philadelphia and the Control of the Control | Maddwidd fadar yw charac a fab ar aill f |
| | Water flushing of flo Other (specify) | oors <i>NH</i> _ | · | | WANT AND AN ARCHITECTURE OF THE PARTY OF THE | |
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| [<u>X</u>] | Mark (X) this box if | you attac | h a continua | tion sheet. | | |
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| | | | | 2.4 | · • | |

| PART | E WORK PRACTICES | | | - | | - |
|-------------|--|-------------------------------|---|---|--|---|
| 9.19 CBI | Describe all of the eliminate worker exp authorized workers, monitoring practices question and complet | osure t mark ar , provi | o the listed so eas with warnio de worker traio | ubstance (e.g ng signs, ins ning programs | ., restrict e ure worker de , etc.). Pho | ntrance only to tection and tocopy this |
| [_] | _ | FLEXI | BLE SEATIN | UG POLYUR | ETHALE FOR | 4 N |
| | Process type | | | | - | 2 |
| | Work area | • • • • • • | • • • • • • • • • • • • • • • • | • • • • • • • • • • • • • | |) |
| | TRAINING 7 | ROGR | AM | *************************************** | | |
| | | | | | | . • |
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| 9.20 | Indicate (X) how oft leaks or spills of the separately for each process type | he l <u>iste</u> process | ed substance. type and work | Photocopy the | is question an | nd complete it |
| | Work area | • • • • • • | | | 3 | |
| | Housekeeping Tasks | | Less Than Once Per Day | 1-2 Times Per Day | 3-4 Times Per Day | More Than 4 Times Per Day |
| | Sweeping | NA | | | | |
| | Vacuuming | NA | *** | | | |
| | Water flushing of flo | oors NA | 7 | | | <u> </u> |
| | Other (specify) | | | | | |
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| Χı | Mark (X) this box if | you att | ach a continua | tion sheet. | | |
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| More Than 4 Times Per Day |
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| PART | E WORK PRACTICES | | - | : | · · · · · · · · · · · · · · · · · · · | |
|-------------|---|--------------------------------------|--|--|--|---|
| 9.19 CBI | Describe all of the eliminate worker expauthorized workers, monitoring practices question and complet | posure to mark are s, provid | o the listed s eas with warni de worker trai: | ubstance (e.g. ng signs, insu ning programs, | ., restrict e ure worker de , etc.). Pho | ntrance only to tection and tocopy this |
| | Process type | FLEXI | BLE SEATH | UG POLYURI | ETHANG FOI | AN . |
| | Work area | | | | | - |
| | TRAINING P | ROGR | AM | | | |
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| | | 79.00 - F 1.44111 | | | | |
| .20 | Indicate (X) how oft leaks or spills of t | en you p | perform each he | ousekeeping ta Photocopy thi | ask used to clustion ar | lean up <u>routine</u> nd complete it |
| | separately for each | process | type and work | area. | | |
| | separately for each | process | type and work | area. | | AM |
| | | process | type and work | area. | | AM |
| | separately for each Process type | process | type and work | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | separately for each Process type Work area | process | type and work BLE SEATING VEACTURING Less Than | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | Process type Work area Housekeeping Tasks | FLEX) | type and work BLE SEATING VEACTURING Less Than | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming | Process FLEXI) MAN | type and work BLE SEATING VEACTURING Less Than Once Per Day | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping | Process FLEXI) MAN | type and work BLE SEATING VEACTURING Less Than Once Per Day | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | Process FLEXI) MAN | type and work BLE SEATING VEACTURING Less Than Once Per Day | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | Process FLEXI) MAN | type and work BLE SEATING VEACTURING Less Than Once Per Day | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | Process FLEXI) MAN | type and work BLE SEATING VEACTURING Less Than Once Per Day | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | Process FLEXI) MAN | type and work BLE SEATING VEACTURING Less Than Once Per Day | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | Process FLEXI) MAN | type and work BLE SEATING VEACTURING Less Than Once Per Day | POLYURE, PROCES S 1-2 Times | 7HANE FO 5 | More Than 4 |
| X 1 | Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of fl | Process FLEXI MAN NA NA OORS NA | type and work BLE SEATING VEACTURING Less Than Once Per Day | POLYURE, PROCES S 1-2 Times Per Day | 7HANE FO 5 | |

| : | E WORK PRACTICES | | | | | |
|----------------|---|---------------------------------|---|--|---|---|
| 9.19 CBI | Describe all of the eliminate worker ex authorized workers, monitoring practice question and comple | posure t mark ar s, provi | o the listed su eas with warnin de worker train | ubstance (e.g. ng signs, insu ning programs, | ., restrict en ure worker det , etc.). Phot | ntrance only to tection and tocopy this |
| [_] | Process type | FLEX | IBLE SEATIN UFA CTUR ING | 16 POLYURI | STHALL FOR | AN . |
| | Work area | | | | 6 |) |
| | EXPOSURE ! | | DRING | | | |
| | LIMITED I | Acces | | | | |
| | leaks or spills of separately for each Process type | FLEX, | type and work | area. | - | AM |
| | Housekeeping Tasks | | Less Than Once Per Day | 1-2 Times Per Day | 3-4 Times Per Day | |
| | | | | | | More Than 4 Times Per Day |
| | Sweeping | NA | | | | |
| | Vacuuming | NA | n. | | | |
| | | NA | 4 | | | |
| | Vacuuming Water flushing of f | NA | 4 | | | |
| | Vacuuming Water flushing of f | NA | 4 | | | More Than 4 Times Per Day |
| X ₁ | Vacuuming Water flushing of f | NA loors N | | tion sheet. | | |

| 9.21 | Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance? RESPONSE NOT REQUIRED FOR TOIL | | | | | | |
|-----------|--|--|--|--|--|--|--|
| | Routine exposure | | | | | | |
| | Yes 1 | | | | | | |
| | No 2 | | | | | | |
| | Emergency exposure | | | | | | |
| | Yes 1 | | | | | | |
| | No 2 | | | | | | |
| | If yes, where are copies of the plan maintained? | | | | | | |
| | Routine exposure: | | | | | | |
| | Emergency exposure: | | | | | | |
| 9.22 | Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response. | | | | | | |
| | Yes | | | | | | |
| | NO | | | | | | |
| | If yes, where are copies of the plan maintained? AND FOAM CONTROL ROOM | | | | | | |
| | Has this plan been coordinated with state or local government response organizations? Circle the appropriate response. | | | | | | |
| | Yes | | | | | | |
| | No | | | | | | |
| 9.23 | Who is responsible for monitoring worker safety at your facility? Circle the appropriate response. Response NOT Required FOR TOT | | | | | | |
| | Plant safety specialist 1 | | | | | | |
| | Insurance carrier 2 | | | | | | |
| | OSHA consultant 3 | | | | | | |
| | Other (specify) 4 | | | | | | |
| <u></u> 1 | Mark (X) this box if you attach a continuation sheet. | | | | | | |

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

| PART A | GENERAL INFORMATION |
|--------|---|
| 10.01 | Where is your facility located? Circle all appropriate responses. |
| CBI | |
| [_] | Industrial area 1 |
| | Urban area |
| | Residential area 3 |
| | Agricultural area 4 |
| | Rural area 5 |
| | Adjacent to a park or a recreational area 6 |
| | Within 1 mile of a navigable waterway 7 |
| | Within 1 mile of a school, university, hospital, or nursing home facility |
| | Within 1 mile of a non-navigable waterway |
| | Other (specify)10 |
| [_] ! | Mark (X) this box if you attach a continuation sheet. |

| 10.02 | Specify the exact location of your facility (from central point where process unit is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates. | | | | | | | |
|---------------------|---|-----------------------------------|----------------------------|-----------------------------------|--|--|--|--|
| | Latitude | ····· | <u>35 · 53</u> | 3,48 | | | | |
| | Longitude | ······_ | <u>88 · 45</u> | 33 | | | | |
| | UTM coordinates Zone | , Northi | ng, Eas | ting | | | | |
| 10.03 | If you monitor meteorological condithe following information. Respon | tions in the vicini | ty of your facili | ity, provide | | | | |
| | Average annual precipitation | | | | | | | |
| | Predominant wind direction | | | _ | | | | |
| 10.04 | Indicate the depth to groundwater by RES PONS | elow your facility. E NOT REQUIR | RED FOR TH | O <i>J</i> meters | | | | |
| 10.05 <u>CBI</u> | For each on-site activity listed, in the listed substance to the environment Y, N, and NA.) | | | | | | | |
| [_] | On-Site Activity | Envi Air | ronmental Release Water | e Land | | | | |
| | Manufacturing | | NA | NA | | | | |
| | Importing | NA | NA | NA | | | | |
| | Processing | <u> </u> | <u> </u> | $\frac{\mathcal{N}}{\mathcal{N}}$ | | | | |
| | Otherwise used | NA | NA | NA | | | | |
| | Product or residual storage | NA | NA | NA | | | | |
| | Disposal | NA | NA | W/A | | | | |
| | Transport | NA- | NA | 10 1 A | | | | |
| | Mark (X) this box if you attach a co | | | | | | | |

| [_] | Quantity discharged to the air | 1.97 | kg/yr <u>+</u> |
|-----|---|------|------------------|
| | Quantity discharged in wastewaters | NA | kg/yr ± % |
| | Quantity managed as other waste in on-site treatment, storage, or disposal units | NA | kg/yr ± % |
| | Quantity managed as other waste in off-site treatment, storage, or disposal units | NA | kg/yr <u>+</u> % |
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| Ī | process block or reand complete it sepa | ream containing the listed substance as idesidual treatment block flow diagram(s). Plarately for each process type. | notocopy this questi |
|----|---|---|----------------------|
| _1 | Process type | FLEXIBLE SEATING POLYURET MANUFACTURING PROCESS. | HANG FOAM |
| | | MANUFACTURING PROCESS. | |
| | Stream ID Code | Control Technology | Percent Efficien |
| | | | |
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| | | | |
| | | | |
| | NOTE: DO | DOT USE ANY CONTROL TECH | NOLOGIES. |
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| PART I | substance i | ce Emissi in terms | of a Stre | am ID Code as | identified in | your pro | ontaining the listed ocess block or tion of each point |
|--------|--|-----------------------|-----------------|---|----------------------------------|-----------------------|--|
| [_] | source. Do sources (e. for each pr | g., equi | pment lea | <u>material</u> and <u>p</u> ks). Photocop | roduct storage y this questic | e vents, on and co | or fugitive emission mplete it separately |
| | Process typ | e | FLEXIBI MANU | <u>E SEATING</u> FACTURING | POLYURETA PROCESS | YANE | FOAM |
| | Point Source ID Code | - | | | cription of Em | | |
| | <u>751</u> | - | | EXHAUST | STACK | | |
| | <u>752</u> | | | EXHAUST | STACK | | |
| | <u>753</u> | - | | EXHAUST | STACK | | |
| | <u>754</u> | - | | EXHAUST | STACK | | |
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| [_] | Mark (X) this | s box if | you attac | h a continuati | on sheet. | | |

| 7 51, | CBI [_] 752, 1 | Point Source ID Code | Physical State C | Average Emissions (kg/day) | Frequency ² (days/yr) | Duration ³ (min/day) | Average Emission Factor 6000057 | Maximum Emission Rate (kg/min) | Maximum Emission Rate Frequency (events/yr) | Maximum Emission Rate Duration (min/event) |
|--------------|----------------------|--|---|--|--|---------------------------------|----------------------------------|---|---|--|
| | | ***** | - | | | | | | | |
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| | | | | | | | | | | |
| | | G = Gas ² Frequer ³ Duration | s; v = vapo ncy of emis on of emiss | codes to descript; P = Particonsision at any lession at any lessio | ulate; A = Aer evel of emissi vel of emissio | rosol; 0 = 0th on | ner (specify) | | | |

10.11 Stack Parameters -- Identify the stack parameters for each Point Source ID Code identified in question 10.09 by completing the following table.

| [_] | Point Source ID Code | Stack Height(m) | Stack Inner Diameter (at outlet) (m) | Exhaust Temperature (°C) 48-50 | Emission Exit Velocity (m/sec) | Building Height(m) ¹ | Building Width(m) ² | Vent Type ³ |
|-----|---|---|--------------------------------------|---|--------------------------------|---------------------------------|--------------------------------|---|
| | <i>75</i> 2 | 10.4 | 0.81 | 48-50 | UNK | 6.7 | 60.9 | $\underline{\hspace{1cm}}^{\hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm}}$ |
| | 753 | 9.4 | 1.02 | 48-50 | UNK | 6.7 | 60.9 | $\underline{\hspace{1cm}} \hspace{1cm} hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}1cm$ |
| | 754 | 9.5 | 0.91 | 48-50 | UNK | 6.7 | 60.9 | <u> </u> |
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| | *************************************** | *************************************** | | | | | | |

¹Height of attached or adjacent building

H = Horizontal

V = Vertical

²Width of attached or adjacent building

³Use the following codes to designate vent type:

| 10.12 <u>CBI</u> | distribution for each Point Source Photocopy this question and complete | in particulate form, indicate the particle size ID Code identified in question 10.09. The it separately for each emission point source. |
|---------------------|--|--|
| [_] | ///\forall Point source ID code | +08 102 |
| | Size Range (microns) | Mass Fraction (% \pm % precision) |
| | < 1 | |
| | ≥ 1 to < 10 | |
| | ≥ 10 to < 30 | |
| | ≥ 30 to < 50 | and the second s |
| | ≥ 50 to < 100 | |
| | _ ≥ 100 to < 500 | |
| | ≥ 500 | |
| | - | Total = 100% |
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PART C FUGITIVE EMISSIONS 10.13 Equipment Leaks -- Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately CBI for each process type. FLEXIBLE SEATING _POLVURETHANE Process type MANUFACTURING Percentage of time per year that the listed substance is exposed to this process Number of Components in Service by Weight Percent of Listed Substance in Process Stream Less Greater Equipment Type than 5% 5-10% 11-25% 26-75% 76-99% than 99% Pump seals¹ **Packed** Mechanical Double mechanical² Compressor seals¹ Flanges Valves Gas³ Liquid Pressure relief devices (Gas or vapor only) Sample connections Gas Liquid Open-ended lines⁵ (e.g., purge, vent) Gas Liquid ¹List the number of pump and compressor seals, rather than the number of pumps or compressors 10.13 continued on next page Mark (X) this box if you attach a continuation sheet.

| 10.13 | (continued) | | | | | | |
|---------------------|--|---|--------------------|--|--|--|--|
| | ² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicat with a "B" and/or an "S", respectively | | | | | | |
| | ³ Conditions existing in th | ne valve during norma | al operation | | | | |
| | ⁴ Report all pressure relie control devices | ef devices in service | e, including those | equipped with | | | |
| | ⁵ Lines closed during norma operations | al operation that wou | ıld be used during | maintenance | | | |
| 10.14 <u>CBI</u> | Pressure Relief Devices with pressure relief devices in devices in service are contenter "None" under column | dentified in 10.13 to atrolled. If a press | indicate which p | ressure relief | | | |
| [_] | a. | b. | c. | d., | | | |
| | Number of Pressure Relief Devices | Percent Chemical in Vessel ¹ | Control Device | Estimated Control Efficiency ² | | | |
| | 5 | 799%0 | YONE | NA | | | |
| | | | | | | | |
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| | Refer to the table in quest heading entitled "Number of Substance" (e.g., <5%, 5-1 | of Components in Serv | | | | | |
| | ² The EPA assigns a control with rupture discs under refficiency of 98 percent fe conditions | normal operating cond | litions. The EPA a | assigns a control | | | |
| [_] | Mark (X) this box if you at | tach a continuation | sheet. | | | | |

| /V / 4 | type. NA | | | | FLEXIBLE SEATING POLYURET | | | | |
|---|--|-----------|---------|-----------|---------------------------|--|--|--|--|
| Process type | | | FOAM MA | NUFACTURI | NG PROCE | | | | |
| Equipment Type | Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source | Detection | | | (days after | | | | |
| Pump seals | | | | | | | | | |
| Packed | | | | | | | | | |
| Mechanical | | *** | | | | | | | |
| Double mechanical | | | | | | | | | |
| Compressor seals | | | | | | | | | |
| Flanges | | | | | | | | | |
| Valves | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| Gas | | | | | | | | | |
| Liquid | | | | | | | | | |
| Pressure relief devices (gas or vapor only) | | | | | | | | | |
| Sample connections | | | | | | | | | |
| Gas | | | | | | | | | |
| Liquid | | | | | | | | | |
| Open-ended lines | | | | | | | | | |
| Gas _ | | | | | | | | | |
| Liquid _ | | | | | | | | | |
| | | | | | | | | | |
| 1 Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify) | nic vapor analyze nitoring | r | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Mark (X) this box

| 10.16 <u>CBI</u> | liquid | raw mate | rial, interm | and Product S ediate, and p flow diagram | roduct s | | | | ne liste | ed substan | | | | |
|---------------------|--|---|--|--|---------------------------------------|------------|---|---|--|---|---------------------------------------|-------------------------|------------------------------|---------------------------------------|
| | Vessel Type ¹ | | Composition of Stored Materials ³ | Throughput (liters per year) | Vessel Filling Rate (gpm) | | Vessel Inner Diameter (m) | | Volume | Vessel | Design Flow Rate | | Control Efficiency (%) | Basis for Estimate ⁶ |
| f | (1P5I) | <u> NA</u> | 80% | 185,000 | 750 | 45 | 2.2 | <i>3.</i> 2 | 15,14 | O NONE | NA | 5.1 | NA | NA |
| P | (30PSI) | NA_ | | 185,000 | | | | | • | | | 1.3 | NA | NA |
| P | (<u>30</u> PsJ) | NA | 80% | 185,000 | 30 | 2 | 0.33 | 0.76 | 76 | NONE | NA | 1.3 | NA | NA |
| | | | | | · · · · · · · · · · · · · · · · · · · | | | - | | | | · | · | |
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| | F CIF NCIF EFR P H U | = Fixed r = Contact = Noncont = Externa = Pressur = Horizon = Undergr | roof internal flact internal il floating r re vessel (in ratal round | floating roo | of are ratin | ng) | MS1 MS2 MS2 LM1 LM2 LMW VM1 VM2 VMW | = Med = Sho R = Rim = Liq = Rim = Wea = Vap = Rim = Wea | hanical e-mounte uid-mounte uid-mounte ther sh or mounte ther sh | shoe, princed secondard, secondard resild ted resilid secondard secondardield | mary ry ient fi ent fil y | lled seal, led seal, | primary | s: |
| | | | nt percent of mating roofs | uæ msted s | sups tarice | · TUCTUO | е иж юта | n vorat | TTE OLG | anc coute | nt in p | arentnesis | 5 | |
| | 5Gas/v | apor flow | rate the em | ission contro | | | | | | flow rate | units) | | | |
| | ⁶ Use t | he follow | ring codes to | designate ba | sis for | estimate (| of control | . effici | ency: | | | | | |

C = Calculations
S = Sampling

| 10.23 | | ed. If there | | | and when the rele attach a continuat | |
|-------|---------|--------------------|-------------------|-----------------------|---|--|
| | Release | | Date tarted | Time (am/pm) | Date Stopped | Time (am/pm) |
| | 1 | | | | | |
| | 2 | ***** | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | Release | Wind Speed (km/hr) | Wind Direction | Required Humidity (%) | Ton TO1 Temperature (°C) | Precipitation (Y/N) |
| | 2 | | | | | *idea and a second a second and |
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APPENDIX I: List of Continuation Sheets

Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

| | Continuation Sheet |
|---------------------|---|
| Question Number (1) | Page Numbers (2) |
| 4,02 | 25A, 25B, 25C, 25 |
| 7.01 | 42A |
| 7.03 | 44A |
| 9.04 | <u> 9/14</u> |
| 9.06 | 93, 1 of 6, 2 of 6, 3 of 6, 4 of 6, 5 of |
| 9.07 | 94 196, 296, 396,496, 596, |
| 9./2 | _ 98 196,296,396,496,596 |
| 9,73 | _ 99 196, 2016, 3016, 406, 596, |
| 9.19 | _ 100 /0/6, 2 <u>4/6, 34/6, 44/6, 34/6, 6</u> |
| [*/ [| _ 105 196, 2016, 356, 496, 576, |
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